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OM protein - protein search, using sw model

Run on: April 19, 2004, 15:38:36 ; Search time 23 Seconds  
(without alignments)  
130.187 Million cell updates/sec

Title: US-10-079-754A-10  
Perfect score: 58  
Sequence: 1 MKIFIFVIMILAMIRAD.....QQYQYQRYPLNYPAYPFP 58

Scoring table: OLIGO  
Gapop 60.0 , Gapext 60.0

Searched: 389414 seqs, 51625971 residues

Word size : 0

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/prodata/2/iaa/5A\_COMB.pep:\*  
2: /cgn2\_6/prodata/2/iaa/5B\_COMB.pep:\*  
3: /cgn2\_6/prodata/2/iaa/6A\_COMB.pep:\*  
4: /cgn2\_6/prodata/2/iaa/6B\_COMB.pep:\*  
5: /cgn2\_6/prodata/2/iaa/PCTUS\_COMB.pep:\*  
6: /cgn2\_6/prodata/2/iaa/backfiles.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	6	10.3	12	3	US-08-602-999A-268
2	6	10.3	12	4	US-09-500-124-268
3	6	10.3	95	4	US-09-621-976-7261
4	6	10.3	103	4	US-09-460-384-35
5	6	10.3	107	4	US-09-198-452A-1200
6	6	10.3	134	4	US-09-634-238-376
7	6	10.3	146	4	US-09-489-039A-7386
8	6	10.3	164	4	US-09-134-000C-3551
9	6	10.3	201	4	US-09-543-681A-4214
10	6	10.3	216	4	US-09-543-681A-5885
11	6	10.3	241	4	US-09-489-039A-8060
12	6	10.3	263	4	US-09-134-001C-3062
13	6	10.3	298	4	US-09-543-681A-5642
14	6	10.3	310	3	US-08-605-284B-16
15	6	10.3	380	3	US-09-097-889-25
16	6	10.3	380	4	US-09-098-078-25
17	6	10.3	386	4	US-09-489-039A-8756
18	6	10.3	450	4	US-09-369-247-97
19	6	10.3	508	4	US-09-369-247-167
20	6	10.3	511	4	US-09-543-681A-6490
21	6	10.3	511	4	US-09-134-000C-5362
22	6	10.3	539	4	US-09-291-922-26
23	6	10.3	581	4	US-09-489-039A-10559
24	6	10.3	590	4	US-09-134-001C-4390
25	6	10.3	601	4	US-09-336-643A-4
26	6	10.3	623	4	US-09-540-236-1934
27	6	10.3	751	4	US-09-252-991A-29893

28	6	10.3	1026	1	US-07-998-003A-95	Sequence 95, Appl
29	6	10.3	1026	1	US-08-453-274B-95	Sequence 95, Appl
30	6	10.3	1026	1	US-08-453-695A-95	Sequence 95, Appl
31	6	10.3	1026	1	US-08-268-161A-95	Sequence 95, Appl
32	6	10.3	1026	2	US-08-453-702A-95	Sequence 95, Appl
33	6	10.3	1026	2	US-09-099-639-95	Sequence 95, Appl
34	6	10.3	1026	5	PCT-US93-12588-95	Sequence 95, Appl
35	6	10.3	1026	5	PCT-US95-08071-95	Sequence 95, Appl
36	6	10.3	1203	1	US-07-998-003A-103	Sequence 103, App
37	6	10.3	1203	1	US-08-453-274B-103	Sequence 103, App
38	6	10.3	1203	1	US-08-453-695A-103	Sequence 103, App
39	6	10.3	1203	1	US-08-268-161A-103	Sequence 103, App
40	6	10.3	1203	2	US-08-453-702A-103	Sequence 103, App
41	6	10.3	1203	3	US-09-099-639-103	Sequence 103, App
42	6	10.3	1203	5	PCT-US93-12588-103	Sequence 103, App
43	6	10.3	1203	5	PCT-US95-08071-103	Sequence 103, App
44	6	10.3	1349	3	US-08-938-291A-6	Sequence 6, Appl
45	6	10.3	1349	4	US-09-589-619-6	Sequence 6, Appl

ALIGNMENTS

RESULT 1  
US-08-602-999A-268  
; Sequence 268, Application US/08602999A  
; Patent No. 6184205  
; GENERAL INFORMATION:  
; APPLICANT: SPARKS, Andrew B.  
; APPLICANT: KAY, Brian K.  
; APPLICANT: THORN, Judith M.  
; APPLICANT: QUILLIAM, Lawrence A.  
; APPLICANT: DER, Channing J.  
; APPLICANT: FOMKES, Dana M.  
; APPLICANT: RIDER, James E.  
; TITLE OF INVENTION: SH3 BINDING PEPTIDES AND METHODS OF  
; NUMBER OF SEQUENCES: 467  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Pennie & Edmonds  
; STREET: 1155 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 10036-2711  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/602,999A  
; FILING DATE: 16-FEB-1996  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mirock, S. Leslie  
; REGISTRATION NUMBER: 18,872  
; REFERENCE/DOCKET NUMBER: 1101-202  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 790-9090  
; TELEFAX: (212) 869-9741/8864  
; TELEX: 66141 PENNIE  
; INFORMATION FOR SEQ ID NO: 268:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 12 amino acids  
; TYPE: amino acid  
; TOPOLOGY: unknown  
; MOLECULE TYPE: peptide  
; US-08-602-999A-268

Query Match 10.3%; Score 6; DB 3; Length 12;  
Best Local Similarity 100.0%; Pred. No. 6.6;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 51 YPPAYP 56  
| | | | |  
Db 1 YPPAYP 6

## RESULT 2

US-09-500-124-268  
; Sequence 268, Application US/09500124  
; Patent No. 6432920  
; GENERAL INFORMATION:  
; APPLICANT: SPARKS, Andrew B.  
; APPLICANT: KAY, Brian K.  
; APPLICANT: THORN, Judith M.  
; APPLICANT: QUILLIAM, Lawrence A.  
; APPLICANT: DER, Channing J.  
; APPLICANT: FOLKES, Dana M.  
; APPLICANT: RIDER, James E.  
; TITLE OF INVENTION: SH3 BINDING PEPTIDES AND METHODS OF  
; TITLE OF INVENTION: ISOLATING AND USING SAME  
; NUMBER OF SEQUENCES: 467  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Pennie & Edmonds  
; STREET: 1155 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 10036-2711  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION NUMBER: US/09/500,124  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/602,999  
; FILING DATE: 16-FEB-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Misrock, S. Leslie  
; REGISTRATION NUMBER: 18,872  
; REFERENCE/DOCKET NUMBER: 1101-202  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 790-9090  
; TELEFAX: (212) 869-9741/8864  
; TELEX: 66141 PENNIE  
; INFORMATION FOR SEQ ID NO: 268:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 12 amino acids  
; TYPE: amino acid  
; TOPOLOGY: unknown  
; MOLECULE TYPE: Peptide  
US-09-500-124-268

Query Match 10.3%; Score 6; DB 4; Length 12;  
Best Local Similarity 100.0%; Pred. No. 6.6;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 51 YPPAYP 56  
| | | | |  
Db 1 YPPAYP 6

## RESULT 3

US-09-621-976-7261  
; Sequence 7261, Application US/09621976  
; Patent No. 6639063  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Jobert, S.  
; APPLICANT: Giordano, J.Y.

; TITLE OF INVENTION: ESTs and Encoded Human Proteins.  
; FILE REFERENCE: GENSSET.054PR2  
; CURRENT APPLICATION NUMBER: US/09/621,976  
; CURRENT FILING DATE: 2000-07-21  
; NUMBER OF SEQ ID NOS: 19335  
; SOFTWARE: Patent.pm  
; SEQ ID NO 7261  
; LENGTH: 95  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-621-976-7261

Query Match 10.3%; Score 6; DB 4; Length 95;  
Best Local Similarity 100.0%; Pred. No. 36;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 22 SEEKRH 27  
| | | | |  
Db 86 SEEKRH 91

## RESULT 4

US-09-460-384-35  
; Sequence 35, Application US/09460384  
; Patent No. 6337316  
; GENERAL INFORMATION:  
; APPLICANT: EL TAYAR, Nabil  
; BLECHNER, Steven  
; JAMESON, Brad  
; TEPPER, Mark  
; TITLE OF INVENTION: CD28/CTLA-4 INHIBITING PEPTIDOMIMETICS,  
; PHARMACEUTICAL COMPOSITIONS THEREOF, AND METHOD OF USING  
; SAME  
; NUMBER OF SEQUENCES: 37  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.  
; STREET: 624 Ninth Street N.W., Ste. 300  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: U.S.A.  
; ZIP: 20001  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION NUMBER: US/09/460,384  
; FILING DATE: 13-Dec-1999  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US98/12312  
; FILING DATE: 11-JUN-1998  
; APPLICATION NUMBER: US 60/049,470  
; FILING DATE: 12-JUN-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: YUN, Allen C  
; REGISTRATION NUMBER: 37,971  
; REFERENCE/DOCKET NUMBER: EL TAYAR-1A  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 628-5197  
; TELEFAX: (202) 737-3528  
; INFORMATION FOR SEQ ID NO: 35:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 103 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: Peptide  
; SEQUENCE DESCRIPTION: SEQ ID NO: 35:  
US-09-460-384-35

Query Match

10.3%; Score 6; DB 4; Length 103;

Best Local Similarity 100.0%; Pred. No. 38;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 39 QOQPY 44  
| | | | |  
Db 88 QOQPY 93

RESULT 5  
US-09-198-452A-1200  
; Sequence 1200, Application US/09198452A  
; Patent No. 6559294  
; GENERAL INFORMATION:  
; APPLICANT: Griffais, R.  
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments  
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention  
; FILE REFERENCE: 9710-003-999  
; CURRENT APPLICATION NUMBER: US/09/198,452A  
; CURRENT FILING DATE: 1998-11-24  
; NUMBER OF SEQ ID NOS: 6849  
; SEQ ID NO 1200  
; LENGTH: 107  
; TYPE: PRT  
; ORGANISM: Chlamydia pneumoniae  
US-09-198-452A-1200

Query Match 10.3%; Score 6; DB 4; Length 107;  
Best Local Similarity 100.0%; Pred. No. 39;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 21 SSEEKX 26  
| | | | |  
Db 80 SSEEKX 85

RESULT 6  
US-09-634-238-376  
; Sequence 376, Application US/09634238  
; Patent No. 6544772  
; GENERAL INFORMATION:  
; APPLICANT: Glenn, Matthew  
; APPLICANT: Havukkala, Ilkka J.  
; APPLICANT: Bloksberg, Leonard, N.  
; APPLICANT: Lubbers, Mark W.  
; APPLICANT: Dekker, James  
; APPLICANT: Christensson, Anna C.  
; APPLICANT: Holland, Ross  
; APPLICANT: O'Toole, Paul W.  
; APPLICANT: Reid, Julian R.  
; APPLICANT: Coolbear, Timothy  
; TITLE OF INVENTION: Polynucleotides, materials incorporating  
; TITLE OF INVENTION: them and methods for using them.  
; FILE REFERENCE: 11000.1043U1  
; CURRENT APPLICATION NUMBER: US/09/634,238  
; CURRENT FILING DATE: 2000-08-08  
; NUMBER OF SEQ ID NOS: 422  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 376  
; LENGTH: 134  
; TYPE: PRT  
; ORGANISM: Lactobacillus rhamnosus  
US-09-634-238-376

Query Match 10.3%; Score 6; DB 4; Length 134;  
Best Local Similarity 100.0%; Pred. No. 47;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 51 YPPAYP 56  
| | | | |  
Db 52 YPPAYP 57

RESULT 7  
US-09-489-039A-7386  
; Sequence 7386, Application US/09489039A  
; Patent No. 6610836  
; GENERAL INFORMATION:  
; APPLICANT: Gary Breton et. al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA  
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 2709.2004001  
; CURRENT APPLICATION NUMBER: US/09/489,039A  
; CURRENT FILING DATE: 2000-01-27  
; PRIOR APPLICATION NUMBER: US 60/117,747  
; PRIOR FILING DATE: 1999-01-29  
; NUMBER OF SEQ ID NOS: 14342  
; SEQ ID NO 7386  
; LENGTH: 146  
; TYPE: PRT  
; ORGANISM: Klebsiella pneumoniae  
US-09-489-039A-7386

Query Match 10.3%; Score 6; DB 4; Length 146;  
Best Local Similarity 100.0%; Pred. No. 50;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 18 RADSSX 23  
| | | | |  
Db 90 RADSSX 95

RESULT 8  
US-09-134-000C-3551  
; Sequence 3551, Application US/09134000C  
; Patent No. 6617156  
; GENERAL INFORMATION:  
; APPLICANT: Lynn Doucette-Stamm et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
; TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 032796-032  
; CURRENT APPLICATION NUMBER: US/09/134,000C  
; CURRENT FILING DATE: 1998-08-13  
; PRIOR APPLICATION NUMBER: US 60/055,778  
; PRIOR FILING DATE: 1997-08-15  
; NUMBER OF SEQ ID NOS: 5812  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 3551  
; LENGTH: 164  
; TYPE: PRT  
; ORGANISM: Enterococcus faecalis  
US-09-134-000C-3551

Query Match 10.3%; Score 6; DB 4; Length 164;  
Best Local Similarity 100.0%; Pred. No. 55;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 21 SSEEKX 26  
| | | | |  
Db 151 SSEEKX 156

RESULT 9  
US-09-543-681A-4214  
; Sequence 4214, Application US/09543681A  
; Patent No. 6605709  
; GENERAL INFORMATION:  
; APPLICANT: GARY BRETON  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS  
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 2709.1002-001  
; CURRENT APPLICATION NUMBER: US/09/543,681A  
; CURRENT FILING DATE: 2000-04-05  
; PRIOR APPLICATION NUMBER: US 60/128,706  
; PRIOR FILING DATE: 1999-04-09  
; NUMBER OF SEQ ID NOS: 8344

; SEQ ID NO 4214  
; LENGTH: 201  
; TYPE: PRT  
; ORGANISM: Proteus mirabilis  
US-09-543-681A-4214

Query Match 10.3%; Score 6; DB 4; Length 201;  
Best Local Similarity 100.0%; Pred. No. 65;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 MALILA 15  
|  
|  
|  
|  
Db 105 MALILA 110

## RESULT 10

US-09-543-681A-5885  
; Sequence 5885, Application US/09543681A  
; Patent No. 6605709  
; GENERAL INFORMATION:

; APPLICANT: GARY BRETON  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS  
; FILE REFERENCE: 2709.1002-001  
; CURRENT APPLICATION NUMBER: US/09/543.681A  
; CURRENT FILING DATE: 2000-04-05  
; PRIOR APPLICATION NUMBER: US 60/128,706  
; PRIOR FILING DATE: 1999-04-09  
; NUMBER OF SEQ ID NOS: 8344  
; SEQ ID NO 5885  
; LENGTH: 216  
; TYPE: PRT  
; ORGANISM: Proteus mirabilis  
US-09-543-681A-5885

Query Match 10.3%; Score 6; DB 4; Length 216;  
Best Local Similarity 100.0%; Pred. No. 69;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 FINALI 13  
|  
|  
|  
|  
Db 28 FINALI 33

## RESULT 11

US-09-489-039A-8060  
; Sequence 8060, Application US/09489039A  
; Patent No. 6610836  
; GENERAL INFORMATION:

; APPLICANT: Gary Breton et. al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA  
; FILE REFERENCE: 2709.2004001  
; CURRENT APPLICATION NUMBER: US/09/489.039A  
; CURRENT FILING DATE: 2000-01-27  
; PRIOR APPLICATION NUMBER: US 60/117,747  
; PRIOR FILING DATE: 1999-01-29  
; NUMBER OF SEQ ID NOS: 14342  
; SEQ ID NO 8060  
; LENGTH: 241  
; TYPE: PRT  
; ORGANISM: Klebsiella pneumoniae  
US-09-489-039A-8060

Query Match 10.3%; Score 6; DB 4; Length 241;  
Best Local Similarity 100.0%; Pred. No. 76;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 FINALI 13  
|  
|  
|  
|  
Db 183 FINALI 188

## RESULT 12

US-09-134-001C-3062  
; Sequence 3062, Application US/09134001C  
; Patent No. 6380370  
; GENERAL INFORMATION:

; APPLICANT: Lynn Doucette-Stamm et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS  
; FILE REFERENCE: GTC-007  
; CURRENT APPLICATION NUMBER: US/09/134.001C  
; CURRENT FILING DATE: 1998-08-13  
; PRIOR APPLICATION NUMBER: US 60/064,964  
; PRIOR FILING DATE: 1997-11-08  
; PRIOR APPLICATION NUMBER: US 60/055,779  
; PRIOR FILING DATE: 1997-08-14  
; NUMBER OF SEQ ID NOS: 5674  
; SEQ ID NO 3062  
; LENGTH: 263  
; TYPE: PRT  
; ORGANISM: Staphylococcus epidermidis  
US-09-134-001C-3062

Query Match 10.3%; Score 6; DB 4; Length 263;  
Best Local Similarity 100.0%; Pred. No. 81;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 FIFVFI 9  
|  
|  
|  
|  
Db 10 FIFVFI 15

## RESULT 13

US-09-543-681A-5642  
; Sequence 5642, Application US/09543681A  
; Patent No. 6605709  
; GENERAL INFORMATION:

; APPLICANT: GARY BRETON  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRAB.  
; FILE REFERENCE: 2709.1002-001  
; CURRENT APPLICATION NUMBER: US/09/543.681A  
; CURRENT FILING DATE: 2000-04-05  
; PRIOR APPLICATION NUMBER: US 60/128,706  
; PRIOR FILING DATE: 1999-04-09  
; NUMBER OF SEQ ID NOS: 8344  
; SEQ ID NO 5642  
; LENGTH: 298  
; TYPE: PRT  
; ORGANISM: Proteus mirabilis  
US-09-543-681A-5642

Query Match 10.3%; Score 6; DB 4; Length 298;  
Best Local Similarity 100.0%; Pred. No. 90;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 21 SSEEKR 26  
|  
|  
|  
|  
Db 264 SSEEKR 269

## RESULT 14

US-08-605-284B-16  
; Sequence 16, Application US/08605284B  
; Patent No. 6060271  
; GENERAL INFORMATION:

; APPLICANT: WALEWSKI, JOSE L.  
; APPLICANT: RECIO-PINTO, ESPERANZA  
; TITLE OF INVENTION: VOLTAGE GATED SODIUM CHANNELS FROM  
; TITLE OF INVENTION: HUMAN PERIPHERAL NERVE  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: NIXON, HARGRAVE, DEVANS & DOYLE LLP  
; STREET: CLINTON SQUARE, P.O. BOX 1051

```

; CITY: ROCHESTER
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE: 09-FEB-1996
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: BRAMAN, SUSAN J.
; REGISTRATION NUMBER: 34,103
; REFERENCE/DOCKET NUMBER: 19603/800 (CRF D-1705)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 716-263-1636
; TELEFAX: 716-263-1600
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 310 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-605-284B-16

Query Match 10.3%; Score 6; DB 3; Length 310;
Best Local Similarity 100.0%; Pred. No. 93;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 FINALI 13
DB 67 FINALI 72

RESULT 15
US-09-097-889-25
; Sequence 25, Application US/09097889
; Patent No. 6218117
; GENERAL INFORMATION:
; APPLICANT: HerinStadt, Corrina
; APPLICANT: Ghosh, Soumitra S.
; APPLICANT: Davis, Robert E.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR IDENTIFYING
; TITLE OF INVENTION: AGENTS THAT QUANTATIVELY ALTER DETECTABLE
; TITLE OF INVENTION: EXTRAMITOCHONDRIAL DNA: MITOCHONDRIAL DNA RATIOS
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE: 15-JUN-1998
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Rosenman Ph.D., Stephen J.
; REGISTRATION NUMBER: 43,058
; REFERENCE/DOCKET NUMBER: 660088.417
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 380 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; US-09-097-889-25

Query Match 10.3%; Score 6; DB 3; Length 380;
Best Local Similarity 100.0%; Pred. No. 11e-02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 12 LILAMI 17
DB 299 LILAMI 304

Search completed: April 19, 2004, 15:44:19
Job time : 23 secs

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17	6	10.3	62	12	US-10-424-599-229298	Sequence 229298,
18	6	10.3	63	14	US-10-125-258-56	Sequence 56, Appl
19	6	10.3	63	14	US-10-125-258-61	Sequence 61, Appl
20	6	10.3	71	12	US-10-424-599-156798	Sequence 156798,
21	6	10.3	71	12	US-10-424-599-221250	Sequence 221250,
22	6	10.3	71	12	US-10-424-599-250830	Sequence 250830,
23	6	10.3	75	9	US-09-864-761-47763	Sequence 47763, A
24	6	10.3	81	12	US-10-424-599-225829	Sequence 225829,
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26	6	10.3	99	12	US-10-424-599-266340	Sequence 266340,
27	6	10.3	106	11	US-09-833-245-791	Sequence 791, App
28	6	10.3	107	12	US-10-424-599-224333	Sequence 224333,
29	6	10.3	107	15	US-10-289-762-1200	Sequence 1200, Ap
30	6	10.3	108	9	US-09-738-626-6237	Sequence 6237, Ap
31	6	10.3	110	12	US-10-424-599-234852	Sequence 234852,
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33	6	10.3	114	12	US-10-424-599-197414	Sequence 197414,
34	6	10.3	117	12	US-10-424-599-216096	Sequence 216096,
35	6	10.3	119	12	US-10-424-599-145916	Sequence 145916,
36	6	10.3	126	12	US-10-282-132A-73863	Sequence 73863, A
37	6	10.3	130	13	US-10-001-857-205	Sequence 205, App
38	6	10.3	144	12	US-10-424-599-159623	Sequence 159623,
39	6	10.3	153	12	US-10-424-599-159963	Sequence 159963,
40	6	10.3	161	12	US-10-424-599-203488	Sequence 203488,
41	6	10.3	161	12	US-10-424-599-279792	Sequence 279792,
42	6	10.3	169	12	US-10-424-599-253119	Sequence 253119,
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ALIGNMENTS

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; Sequence 7, Application US/10079754A  
; Publication No. US20020164625A1  
; GENERAL INFORMATION:  
; APPLICANT: Glenn, Matthew  
; APPLICANT: Grigor, Murray R.  
; APPLICANT: Molenaar, Adrian J.  
; APPLICANT: Davis, Stephen R.  
; TITLE OF INVENTION: Compositions Isolated from Bovine Mammary Gland and Methods for Their Use  
; FILE REFERENCE: 11000.1068  
; CURRENT APPLICATION NUMBER: US/10/079,754A  
; CURRENT FILING DATE: 2002-02-19  
; PRIOR APPLICATION NUMBER: US 09/699,146  
; PRIOR FILING DATE: 2000-10-27  
; PRIOR APPLICATION NUMBER: US 60,162,701  
; PRIOR FILING DATE: 1999-10-29  
; PRIOR APPLICATION NUMBER: US 09/644,190  
; PRIOR FILING DATE: 2000-08-22  
; PRIOR APPLICATION NUMBER: US 60,150,330  
; PRIOR FILING DATE: 1999-08-23  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 7  
; LENGTH: 58  
; TYPE: PRT  
; ORGANISM: Bovine  
US-10-079-754A-7

Query Match 100.0%; Score 58; DB 13; Length 58;  
Best Local Similarity 100.0%; Pred. No. 6.1e-53;  
Matches 58; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 1 MKIFIVFIMATILAMIRADSSSEKHKRKHGHRGFGQYQYQYPLNYPAYPPF 58

GenCore version 5.1.6  
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OM protein - protein search, using sw model  
Run on: April 19, 2004, 15:42:57 ; Search time 41 Seconds  
(without alignments)  
389.977 Million cell updates/sec

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Perfect score: 58  
Sequence: 1 MKIFIVFIMATILAMIRADSSSEKHKRKHGHRGFGQYQYQYPLNYPAYPPF 58

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Word size : 0  
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Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	51	87.9	58	13	US-10-079-754A-8
4	34	58.6	59	13	US-10-079-754A-12
5	27	46.6	70	13	US-10-079-754A-9
6	11	19.0	21	13	US-10-079-754A-11
7	8	13.8	363	12	US-10-425-114-70822
8	7	12.1	13	10	US-08-876-904A-586
9	7	12.1	62	12	US-10-210-172-168
10	7	12.1	72	12	US-10-424-599-145633
11	7	12.1	150	12	US-10-424-599-257786
12	6	10.3	12	9	US-09-927-436-1
13	6	10.3	12	14	US-10-161-791-268
14	6	10.3	47	12	US-10-210-172-170
15	6	10.3	52	12	US-10-424-599-164611

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02 DB      8 FIMALILAMIRADSSEKRRKRRKXHHRGVFOQYQYQRYVPLNYPPAYPFP 50
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04 RESULT 4
05 US-10-079-754A-12
06 / Sequence 12, Application US/10079754A
07 / Publication No. US20020164625A1
08 / GENERAL INFORMATION:
09 / APPLICANT: Glenn, Matthew
10 / APPLICANT: Grigor, Murray R.
11 / APPLICANT: Molenaar, Adrian J.
12 / APPLICANT: Davis, Stephen R.
13 / TITLE OF INVENTION: Compositions Isolated from Bovine
14 / TITLE OF INVENTION: Mammary Gland and Methods for Their Use
15 / FILE REFERENCE: 11000.1068
16 / CURRENT APPLICATION NUMBER: US/10/079,754A
17 / CURRENT FILING DATE: 2002-02-19
18 / PRIOR APPLICATION NUMBER: US 09/699,146
19 / PRIOR FILING DATE: 2000-10-27
20 / PRIOR APPLICATION NUMBER: US 60,162,701
21 / PRIOR FILING DATE: 1999-10-29
22 / PRIOR APPLICATION NUMBER: US 09/644,190
23 / PRIOR FILING DATE: 2000-08-22
24 / PRIOR APPLICATION NUMBER: US 60,150,330
25 / PRIOR FILING DATE: 1999-08-23
26 / NUMBER OF SEQ ID NOS: 15
27 / SOFTWARE: FastSeq for Windows Version 4.0
28 / SEQ ID NO 12
29 / LENGTH: 59
30 / TYPE: PRT
31 / ORGANISM: Bovine
32 US-10-079-754A-12
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34 Query Match          58.6%; Score 34; DB 13; Length 59;
35 Best Local Similarity 100.0%; Pred. No. 6.3e-28;
36 Matches 34; Conservative 0; Mismatches 0; Indels 0;
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38 QY      1 MKIFVTFMILILAMIRADSSEKRRKRRKXHH 34
39 DB      1 MKIFVTFMILILAMIRADSSEKRRKRRKXHH 34
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41 RESULT 5
42 US-10-079-754A-9
43 / Sequence 9, Application US/10079754A
44 / Publication No. US20020164625A1
45 / GENERAL INFORMATION:
46 / APPLICANT: Glenn, Matthew
47 / APPLICANT: Grigor, Murray R.
48 / APPLICANT: Molenaar, Adrian J.
49 / APPLICANT: Davis, Stephen R.
50 / TITLE OF INVENTION: Compositions Isolated from Bovine
51 / TITLE OF INVENTION: Mammary Gland and Methods for Their Use
52 / FILE REFERENCE: 11000.1068
53 / CURRENT APPLICATION NUMBER: US/10/079,754A
54 / CURRENT FILING DATE: 2002-02-19
55 / PRIOR APPLICATION NUMBER: US 09/699,146
56 / PRIOR FILING DATE: 2000-10-27
57 / PRIOR APPLICATION NUMBER: US 60,162,701
58 / PRIOR FILING DATE: 1999-10-29
59 / PRIOR APPLICATION NUMBER: US 09/644,190
60 / PRIOR FILING DATE: 2000-08-22
61 / PRIOR APPLICATION NUMBER: US 60,150,330
62 / PRIOR FILING DATE: 1999-08-23
63 / NUMBER OF SEQ ID NOS: 15
64 / SOFTWARE: FastSeq for Windows Version 4.0
65 / SEQ ID NO 9
66 / LENGTH: 70
67 / TYPE: PRT
68 / ORGANISM: Bovine

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; APPLICANT: Ellerman, Karen  
; APPLICANT: Malyankar, Uriel  
; APPLICANT: MacDougall, John  
; APPLICANT: Stone, David  
; APPLICANT: Alsobrook II, John  
; APPLICANT: Leplev, Denise et al.  
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD  
; FILE REFERENCE: 21402-416 A  
; CURRENT APPLICATION NUMBER: US/10/210,172  
; PRIOR FILING DATE: 2001-08-01  
; PRIOR APPLICATION NUMBER: 60/309,501  
; PRIOR FILING DATE: 2001-08-02  
; PRIOR APPLICATION NUMBER: 60/323,994  
; PRIOR FILING DATE: 2001-09-21  
; PRIOR APPLICATION NUMBER: 60/373,814  
; PRIOR FILING DATE: 2002-04-19  
; PRIOR APPLICATION NUMBER: 60/310,291  
; PRIOR FILING DATE: 2001-08-03  
; PRIOR APPLICATION NUMBER: 60/310,951  
; PRIOR FILING DATE: 2001-08-08  
; PRIOR APPLICATION NUMBER: 60/310,544  
; PRIOR FILING DATE: 2001-08-07  
; PRIOR APPLICATION NUMBER: 60/311,292  
; PRIOR FILING DATE: 2001-08-09  
; PRIOR APPLICATION NUMBER: 60/311,979  
; PRIOR FILING DATE: 2001-08-13  
; PRIOR APPLICATION NUMBER: 60/313,201  
; PRIOR FILING DATE: 2001-08-17  
; PRIOR APPLICATION NUMBER: 60/312,892  
; PRIOR FILING DATE: 2001-08-16  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 327  
; SOFTWARE: Curaseq1ist version 0.1  
; SEQ ID NO 168  
; LENGTH: 62  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-210-172-168

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QY 19 ADSSEEK 25  
Db 19 ADSSEEK 25

RESULT 10  
US-10-424-599-145633  
; Sequence 145633, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa Thomas J  
; APPLICANT: Kovalic David K  
; APPLICANT: Zhou Yihua  
; APPLICANT: Cao Yongwei  
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53223)B  
; CURRENT APPLICATION NUMBER: US/10/424,599  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 285684  
; SEQ ID NO 145633  
; LENGTH: 72  
; TYPE: PRT  
; ORGANISM: Glycine max  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_102525C.1.pep  
US-10-424-599-145633

Query Match 12.1%; Score 7; DB 12; Length 72;  
Best Local Similarity 100.0%; Pred. No. 10;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3 IFIEVFI 9  
Db 47 IFIEVFI 53

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; Sequence 257786, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa Thomas J  
; APPLICANT: Kovalic David K  
; APPLICANT: Zhou Yihua  
; APPLICANT: Cao Yongwei  
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53223)B  
; CURRENT APPLICATION NUMBER: US/10/424,599  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 285684  
; SEQ ID NO 257786  
; LENGTH: 150  
; TYPE: PRT  
; ORGANISM: Glycine max  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(150)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_74804C.1.pep  
US-10-424-599-257786

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Best Local Similarity 100.0%; Pred. No. 19;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 20 LAMIRAD 26

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US-09-927-436-1  
; Sequence 1, Application US/09927436  
; Patent No. US20020155455A1  
; GENERAL INFORMATION:  
; APPLICANT: Tadayoni-Rebek, Mitra  
; APPLICANT: Amshay, Joseph W.  
; APPLICANT: Rooney, Regina  
; TITLE OF INVENTION: Highly Homogeneous Molecular Markers for Electrophoresis  
; FILE REFERENCE: 0942.5300001  
; CURRENT APPLICATION NUMBER: US/09/927,436  
; CURRENT FILING DATE: 2001-08-13  
; PRIOR APPLICATION NUMBER: US 60/224,345  
; PRIOR FILING DATE: 2000-08-11  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 1  
; LENGTH: 12  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Synthetic peptide  
; NAME/KEY: MOD\_RES  
; LOCATION: (2)..(2)  
; OTHER INFORMATION: Modified with fluorescein  
; NAME/KEY: MOD\_RES  
; LOCATION: (5)..(5)  
; OTHER INFORMATION: Modified with fluorescein  
US-09-927-436-1

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Best Local Similarity 100.0%; Pred. No. 23;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 29 KKKGH 34  
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RESULT 13  
US-10-161-791-268  
; Sequence 268, Application US/10161791  
; Publication No. US20030186863A1  
; GENERAL INFORMATION:  
; APPLICANT: SPARKS, Andrew B.  
; APPLICANT: KAY, Brian K.  
; APPLICANT: THORN, Judith M.  
; APPLICANT: QUILLIAM, Lawrence A.  
; APPLICANT: DER, Channing J.  
; APPLICANT: FOWLKES, Dana M.  
; APPLICANT: RIDER, James E.  
; TITLE OF INVENTION: SH3 BINDING PEPTIDES AND METHODS OF  
; ISOLATING AND USING SAME  
; NUMBER OF SEQUENCES: 467  
; CORRESPONDENCE ADDRESS:  
; ADDRESSES: Pennie & Edmonds  
; STREET: 1155 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 10036-2711  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10161,791  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/602,999  
; FILING DATE: 16-FEB-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mirock, S Leslie  
; REGISTRATION NUMBER: 18,872  
; REFERENCE/DOCKET NUMBER: 1101-202  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 790-9090  
; TELEFAX: (212) 869-9741/8864  
; TELEX: 66141 PENNIE  
; INFORMATION FOR SEQ ID NO: 268:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 12 amino acids  
; TYPE: amino acid  
; TOPOLOGY: unknown  
; MOLECULE TYPE: peptide  
US-10-161-791-268

Query Match 10.3%; Score 6; DB 14; Length 12;  
Best Local Similarity 100.0%; Pred. No. 23;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 51 YPPAYP 56  
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RESULT 14  
US-10-210-172-170  
; Sequence 170, Application US/10210172  
; Publication No. US20040043928A1

; GENERAL INFORMATION:  
; APPLICANT: Kekuda, Ramesh  
; APPLICANT: Miller, Charles  
; APPLICANT: Patturajan, Meera  
; APPLICANT: Pena, Carol  
; APPLICANT: Rieger, Daniel  
; APPLICANT: Shimkets, Richard  
; APPLICANT: Zerhusen, Bryan  
; APPLICANT: Li, Li  
; APPLICANT: Ji, Weizhen  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Casman, Stacie  
; APPLICANT: Voss, Edward  
; APPLICANT: Boldog, Ferenc  
; APPLICANT: Gorman, Linda  
; APPLICANT: Leite, Mario  
; APPLICANT: Vernet, Corine  
; APPLICANT: Anderson, David  
; APPLICANT: Guo, Xiaojia  
; APPLICANT: Zhong, Mei  
; APPLICANT: Hjalte, Tord  
; APPLICANT: Rastelli, Luca  
; APPLICANT: Spytek, Kimberly  
; APPLICANT: Edinger, Shlomit  
; APPLICANT: Ellerman, Karen  
; APPLICANT: Malyankar, Uriel  
; APPLICANT: MacDougall, John  
; APPLICANT: Stone, David  
; APPLICANT: Alsobrook II, John  
; APPLICANT: Lepley, Denise et al.  
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHO  
; FILE REFERENCE: 21402-416 A  
; CURRENT APPLICATION NUMBER: US/10/210,172  
; CURRENT FILING DATE: 2001-08-01  
; PRIOR APPLICATION NUMBER: 60/309,501  
; PRIOR FILING DATE: 2001-08-02  
; PRIOR APPLICATION NUMBER: 60/323,994  
; PRIOR FILING DATE: 2001-09-21  
; PRIOR APPLICATION NUMBER: 60/373,814  
; PRIOR FILING DATE: 2002-04-19  
; PRIOR APPLICATION NUMBER: 60/310,291  
; PRIOR FILING DATE: 2001-08-03  
; PRIOR APPLICATION NUMBER: 60/310,951  
; PRIOR FILING DATE: 2001-08-08  
; PRIOR APPLICATION NUMBER: 60/310,544  
; PRIOR FILING DATE: 2001-08-07  
; PRIOR APPLICATION NUMBER: 60/311,292  
; PRIOR FILING DATE: 2001-08-09  
; PRIOR APPLICATION NUMBER: 60/311,979  
; PRIOR FILING DATE: 2001-08-13  
; PRIOR APPLICATION NUMBER: 60/313,201  
; PRIOR FILING DATE: 2001-08-17  
; PRIOR APPLICATION NUMBER: 60/312,892  
; PRIOR FILING DATE: 2001-08-16  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 327  
; SOFTWARE: CuraseqList version 0.1  
; SEQ ID NO: 170  
; LENGTH: 47  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-210-172-170

Query Match 10.3%; Score 6; DB 12; Length 47;  
Best Local Similarity 100.0%; Pred. No. 77;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 DSSEK 25  
Db 3 DSSEK 8

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US-10-424-599-164611
; Sequence 164611, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 164611
; LENGTH: 52
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(52)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_119661C.1.pap
US-10-424-599-164611

Query Match      10.3%  Score 6;  DB 12;  Length 52;
Best Local Similarity 100.0%;  Pred. No. 85;
Matches      6;  Conservative      0;  Mismatches      0;  Indels      0;  Gaps      0;

Qy      43 PYQRYP 48
Db      35 PYQRYP 40

Search completed: April 19, 2004, 15:48:56
Job time : 42 secs
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Sequence 17, Appl  
Sequence 7, Appl  
Sequence 20, Appl  
Sequence 1, Appl  
Patent No. 5198347  
Sequence 5, Appl  
Sequence 3, Appl  
Sequence 1, Appl  
Sequence 37, Appl  
Sequence 1, Appl  
Sequence 1, Appl  
Sequence 30, Appl  
Sequence 28, Appl  
Sequence 28, Appl  
Sequence 28, Appl  
Sequence 28, Appl  
Sequence 28, Appl  
Sequence 28, Appl  
Sequence 17, Appl  
Sequence 71, Appl  
Sequence 33, Appl  
Sequence 34, Appl  
Sequence 38, Appl  
Sequence 33, Appl  
Sequence 34, Appl  
Sequence 38, Appl  
Sequence 33, Appl  
Sequence 34, Appl  
Sequence 33, Appl

2624 2 US-08-486-663A-17  
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2624 3 US-08-767-942A-20  
2625 2 US-08-435-637A-1  
3157 6 5198347-3  
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5555 1 US-08-484-438-3  
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51 3 US-08-481-710-71  
51 3 PCT-US96-09537-71  
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69 3 US-08-481-710-33  
69 3 US-08-481-710-34  
69 3 US-08-481-710-38  
69 5 PCT-US96-09537-33  
69 5 PCT-US96-09537-34

ALIGNMENTS

RESULT 1  
US-08-434-099A-26  
Sequence 26, Application US/08434099A  
Patent No. 6081902  
GENERAL INFORMATION:  
APPLICANT: Cedarholm-Wms., Stewart A.  
TITLE OF INVENTION: Recombinant Fibrin Chains,  
TITLE OF INVENTION: Fibrin and Fibrin-Homologs  
NUMBER OF SEQUENCES: 37  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: E. R. Squibb & Sons, Inc.  
STREET: 100 Headquarters Park Drive  
CITY: Skillman  
STATE: NJ  
COUNTRY: USA  
ZIP: 08558  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/434,099A  
FILING DATE: 03-MAY-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/236,979  
FILING DATE: 02-MAY-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Futman, Jr., Esq., Theodore R  
REGISTRATION NUMBER: 30,942  
REFERENCE/DOCKET NUMBER: CV0054a  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 908-281-2372  
TELEFAX: 908-281-2373  
TELEX:

us-10-079-754a-10.rni

GenCore version 5.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: April 20, 2004, 04:49:05 ; Search time 78 Seconds  
(without alignments)  
412.656 Million cell updates/sec

Title: US-10-079-754A-10  
Perfect score: 58  
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Ygapop 60.0 , Ygapext 60.0  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 682709 seqs, 277475446 residues  
Word size: 1  
Total number of hits satisfying chosen parameters: 1360396  
Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Listing first 45 summaries

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-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -WATX=oligo -TRANS=human40.cdi  
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-NO WMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSBLOCK=100 -LONGLOG  
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREDS=1 -XGAPOP=60 -XGAPEXT=60 -Fgapop=6  
-Fgapext=7 -Ygapop=60 -Ygapext=60 -DELOP=6 -DELEXT=7

Database : Issued Patents NA:  
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3: /cgn2\_6/ptodata/2/ina/6A.COMB.seq:  
4: /cgn2\_6/ptodata/2/ina/6B.COMB.seq:  
5: /cgn2\_6/ptodata/2/ina/PCTUS.COMB.seq:  
6: /cgn2\_6/ptodata/2/ina/backfiles1.seq:

pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	8	13.8	1438	3	US-08-434-099A-26
2	8	13.8	10564	1	US-08-208-176-5
3	7	12.1	711	4	US-09-543-681A-2950
4	7	12.1	1062	4	US-09-543-681A-1164
5	7	12.1	1509	4	US-09-134-000C-1868
6	7	12.1	1914	4	US-09-543-681A-2340
7	7	12.1	2082	4	US-09-543-681A-2670
8	7	12.1	2437	1	US-08-456-647B-3
9	7	12.1	2437	2	US-08-237-401A-3
10	7	12.1	2598	1	US-08-100-692-4
11	7	12.1	2598	2	US-08-674-030-4
12	7	12.1	2619	4	US-09-166-350-28

INFORMATION FOR SEQ ID NO: 26:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1438 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
FEATURE:  
NAME/KEY: Coding Sequence  
LOCATION: 3...1364  
OTHER INFORMATION:  
US-08-434-099A-26

Alignment Scores:  
Pred. No.: 9.99 Length: 1438  
Score: 8.00 Matches: 8  
Percent Similarity: 100.00% Conservatives: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 13.79% Indels: 0  
DB: 3 Gaps: 0

US-10-079-754A-10 (1-58) x US-08-434-099A-26 (1-1438)

Qy 10 MetAlaLeuileuAlaMetille 17  
Db 1003 ATGGCTTTGATTGGCGATGATC 1026

## RESULT 2

US-08-206-176-5  
Sequence 5, Application US/08206176  
Patent No. 5639940

GENERAL INFORMATION:  
APPLICANT: Garner, Ian

APPLICANT: Darlymple, Michael A  
APPLICANT: Prunkard, Donna E

APPLICANT: Foster, Donald C  
TITLE OF INVENTION: Production of Fibrinogen in Transgenic

NUMBER OF SEQUENCES: 27  
CORRESPONDENCE ADDRESS:

ADDRESSEE: ZymoGenetics, Inc.  
STREET: 4225 Roosevelt Way, N.E.

CITY: Seattle  
STATE: WA

COUNTRY: USA  
ZIP: 98105

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/206,176  
FILING DATE:

CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:

NAME: Parker, Gary E  
REGISTRATION NUMBER: 31-648

REFERENCE/DOCKET NUMBER: 93-15  
TELECOMMUNICATION INFORMATION:

TELEPHONE: 206-547-8080 ext 322  
TELEFAX: 206-548-2329

INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:

LENGTH: 10564 base pairs  
TYPE: nucleic acid

STRANDEDNESS: double  
TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)  
IMMEDIATE SOURCE:

CLONE: human fibrinogen gamma chain  
FEATURE:

NAME/KEY: CDS  
LOCATION: join(1799..1876, 1973..2017, 2207..2390, 2510

LOCATION: ..2603, 4211..4341, 4645..4778, 5758..5942, 7426  
LOCATION: ..7703, 9342..9571)

US-08-206-176-5

Alignment Scores:  
Pred. No.: 63 Length: 10564  
Score: 8.00 Matches: 8  
Percent Similarity: 100.00% Conservatives: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 13.79% Indels: 0  
DB: 1 Gaps: 0

US-10-079-754A-10 (1-58) x US-08-206-176-5 (1-10564)

Qy 10 MetAlaLeuileuAlaMetille 17  
Db 7524 ATGGCTTTGATTGGCGATGATC 7547

## RESULT 3

US-09-543-681A-2950

Sequence 2950, Application US/09543681A  
Patent No. 6605709

GENERAL INFORMATION:  
APPLICANT: GARY BRETON

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRAB1  
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 2709.1002-001  
CURRENT APPLICATION NUMBER: US/09/543,681A

CURRENT FILING DATE: 2000-04-05  
PRIOR APPLICATION NUMBER: US 60/128,706

PRIOR FILING DATE: 1999-04-09  
NUMBER OF SEQ ID NOS: 8344

SEQ ID NO 2950  
LENGTH: 711

TYPE: DNA  
ORGANISM: Proteus mirabilis

US-09-543-681A-2950

Alignment Scores:

Pred. No.: 61.8 Length: 711  
Score: 7.00 Matches: 7  
Percent Similarity: 100.00% Conservatives: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 12.07% Indels: 0  
DB: 4 Gaps: 0

US-10-079-754A-10 (1-58) x US-09-543-681A-2950 (1-711)

Qy 8 PheileMetAlaLeuileu 14

Db 377 TTCATAATGGCATTGATATG 397

## RESULT 4

US-09-543-681A-1164

Sequence 1164, Application US/09543681A  
Patent No. 6605709

GENERAL INFORMATION:  
APPLICANT: GARY BRETON

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRAB1  
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 2709.1002-001  
CURRENT APPLICATION NUMBER: US/09/543,681A

CURRENT FILING DATE: 2000-04-05  
PRIOR APPLICATION NUMBER: US 60/128,706

PRIOR FILING DATE: 1999-04-09  
NUMBER OF SEQ ID NOS: 8344

SEQ ID NO 1164  
LENGTH: 1062

TYPE: DNA  
ORGANISM: Proteus mirabilis

US-09-543-681A-1164

Alignment Scores:

Pred. No.: 89.5 Length: 1062  
Score: 7.00 Matches: 7  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 12.07% Indels: 0  
DB: 4 Gaps: 0

US-10-079-754A-10 (1-58) x US-09-543-681A-1164 (1-1062)

QY 8 PheileMetAlaLeuileLeu 14  
|||||  
DB 467 TTTATTATGGCACTAATCCTA 487

## RESULT 5

US-09-134-000C-1868/c  
; Sequence 1868, Application US/09134000C  
; Patent No. 6617156  
; GENERAL INFORMATION:  
; APPLICANT: Lynn Doucette-Stamm et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
; FILE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 032796-032  
; CURRENT APPLICATION NUMBER: US/09/134,000C  
; CURRENT FILING DATE: 1998-08-13  
; PRIOR APPLICATION NUMBER: US 60/055,778  
; PRIOR FILING DATE: 1997-08-15  
; NUMBER OF SEQ ID NOS: 6812  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 1868  
; LENGTH: 1509  
; TYPE: DNA  
; ORGANISM: Enterococcus faecalis  
US-09-134-000C-1868

## Alignment Scores:

Pred. No.: 124 Length: 1509  
Score: 7.00 Matches: 7  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 12.07% Indels: 0  
DB: 4 Gaps: 0

US-10-079-754A-10 (1-58) x US-09-134-000C-1868 (1-1509)

QY 3 llePheilePheValPheille 9  
|||||  
DB 1212 ATTATTATTTTGTTCATC 1192

## RESULT 6

US-09-543-681A-2340/c  
; Sequence 2340, Application US/09543681A  
; Patent No. 6605709  
; GENERAL INFORMATION:  
; APPLICANT: GARY BRETON  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS  
; FILE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 2709.1002-001  
; CURRENT APPLICATION NUMBER: US/09/543,681A  
; CURRENT FILING DATE: 2000-04-05  
; PRIOR APPLICATION NUMBER: US 60/128,706  
; PRIOR FILING DATE: 1999-04-09  
; NUMBER OF SEQ ID NOS: 8344  
; SEQ ID NO 2340  
; LENGTH: 1914  
; TYPE: DNA  
; ORGANISM: Proteus mirabilis  
US-09-543-681A-2340

Alignment Scores:  
Pred. No.: 154 Length: 1914  
Score: 7.00 Matches: 7  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0

Query Match: 12.07% Indels: 0  
DB: 4 Gaps: 0  
US-10-079-754A-10 (1-58) x US-09-543-681A-2340 (1-1914)

QY 3 llePheilePheValPheille 9  
|||||  
DB 669 ATCTTCATCTCGTCTTCATC 649

## RESULT 7

US-09-543-681A-2670/c  
; Sequence 2670, Application US/09543681A  
; Patent No. 6605709  
; GENERAL INFORMATION:  
; APPLICANT: GARY BRETON  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS  
; FILE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 2709.1002-001  
; CURRENT APPLICATION NUMBER: US/09/543,681A  
; CURRENT FILING DATE: 2000-04-05  
; PRIOR APPLICATION NUMBER: US 60/128,706  
; PRIOR FILING DATE: 1999-04-09  
; NUMBER OF SEQ ID NOS: 8344  
; SEQ ID NO 2670  
; LENGTH: 2082  
; TYPE: DNA  
; ORGANISM: Proteus mirabilis  
US-09-543-681A-2670

## Alignment Scores:

Pred. No.: 167 Length: 2082  
Score: 7.00 Matches: 7  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 12.07% Indels: 0  
DB: 4 Gaps: 0

US-10-079-754A-10 (1-58) x US-09-543-681A-2670 (1-2082)

QY 51 TyrProAlaTyrProPhe 57  
|||||  
DB 1399 TACCCGCCAGCGTATCCATTT 1379

## RESULT 8

US-08-456-647B-3/c  
; Sequence 3, Application US/08456647B  
; Patent No. 5811516  
; GENERAL INFORMATION:  
; APPLICANT: Lemke Ph.D. et al., Greg E.  
; TITLE OF INVENTION: PROTEIN-TYROSINE KINASE GENES  
; NUMBER OF SEQUENCES: 54  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson P.C.  
; STREET: 4225 Executive Square, Suite 1400  
; CITY: La Jolla  
; STATE: CA  
; COUNTRY: US  
; ZIP: 92037  
; COMPUTER READABLE FORM:  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.25  
; CURRENT APPLICATION NUMBER: US/08/456,647B  
; FILING DATE: 02-JUN-1995  
; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/237,401  
; FILING DATE: 02-MAY-1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/884,486  
; FILING DATE: 15-MAY-1992

```

; ATTORNEY/AGENT INFORMATION:
; NAME: Wetherell Ph.D., John R.
; REGISTRATION NUMBER: 31,678
; REFERENCE/DOCKET NUMBER: 07251/007002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 678-5070
; TELEFAX: (619) 678-5099
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2437 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; IMMEDIATE SOURCE:
; CLONE: Tyro-2
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 3..2118
; US-08-456-647B-3

Alignment Scores:
Pred. No.: 193 Length: 2437
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 12.07% Indels: 0
DB: 1 Gaps: 0

US-10-079-754A-10 (1-58) x US-08-456-647B-3 (1-2437)-
QY 13 IleleuAlaMetileArgala 19
Db 565 ATACTTGCATGATCAGAGCC 545

RESULT 9
US-08-237-401A-3/c
; Sequence 3, Application US/08237401A
; Patent No. 5837448
; GENERAL INFORMATION:
; APPLICANT: Lemke Ph.D. et al., Greg E.
; TITLE OF INVENTION: PROTEIN-TYROSINE KINASE GENES
; NUMBER OF SEQUENCES: 54
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: US
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/237,401A
; FILING DATE: 02-MAY-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/884,486
; FILING DATE: 15-MAY-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile Ph.D., Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 07251/007001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 678-5070
; TELEFAX: (619) 678-5099
; INFORMATION FOR SEQ-ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2437 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1010..1321
; US-08-100-692-4

Alignment Scores:
Pred. No.: 204 Length: 2598
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 12.07% Indels: 0
DB: 2 Gaps: 0

US-10-079-754A-10 (1-58) x US-08-237-401A-3 (1-2437)
QY 13 IleleuAlaMetileArgala 19
Db 565 ATACTTGCATGATCAGAGCC 545

RESULT 10
US-08-100-692-4/c
; Sequence 4, Application US/08100692
; Patent No. 5832348
; GENERAL INFORMATION:
; APPLICANT: Huijbregtse, Jon M.
; APPLICANT: Scheffner, Martin
; APPLICANT: Howley, Peter M.
; TITLE OF INVENTION: B6 ASSOCIATED PROTEIN AND METHODS OF USE
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend Kourie and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: CA
; COUNTRY: U.S.A.
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/100,692
; FILING DATE: 19930730
; CLASSIFICATION: 436
; ATTORNEY/AGENT INFORMATION:
; NAME: Parmelee, Steven W.
; REGISTRATION NUMBER: 31,990
; REFERENCE/DOCKET NUMBER: 15280-91
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 487-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2598 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1010..1321
; US-08-100-692-4

Alignment Scores:
Pred. No.: 204 Length: 2598
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 12.07% Indels: 0
DB: 2 Gaps: 0
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Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 12.07% Indels: 0  
DB: 1 Gaps: 0

US-10-079-754A-10 (1-58) x US-08-100-692-4 (1-2598)

QY 3 IlePheIlePheValPheIle 9  
DB 543 ATCTTCATCTTTGTCCTCATC 523

## RESULT 11

US-08-674-030-4/c  
; Sequence 4, Application US/08674030  
; Patent No. 5914389  
; GENERAL INFORMATION:  
; APPLICANT: Huibregtse, Jon M.  
; APPLICANT: Scheffner, Martin  
; APPLICANT: Howley, Peter M.  
; TITLE OF INVENTION: EG ASSOCIATED PROTEIN AND METHODS OF USE  
; TITLE OF INVENTION: THEREOF  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend Kourie and Crew  
; STREET: One Market Plaza, Steuart Street Tower  
; CITY: San Francisco  
; STATE: CA  
; COUNTRY: U.S.A.  
; ZIP: 94105-1492  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/674,030  
; FILING DATE: 01-JUL-1996  
; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/100,692  
; FILING DATE: 30-JUL-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Parmelee, Steven W.  
; REGISTRATION NUMBER: 31,990  
; REFERENCE/DOCKET NUMBER: 15280-91  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206) 467-9600  
; TELEFAX: (415) 543-5043  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2598 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 1010..1321  
; US-08-674-030-4

Alignment Scores:  
Pred. No.: 204 Length: 2598  
Score: 7.00 Matches: 7  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 12.07% Indels: 0  
DB: 2 Gaps: 0

US-10-079-754A-10 (1-58) x US-08-674-030-4 (1-2598)

QY 3 IlePheIlePheValPheIle 9  
DB 543 ATCTTCATCTTTGTCCTCATC 523

## RESULT 12

US-09-166-350-28/c  
; Sequence 28, Application US/09166350A  
; Patent No. 6440663  
; GENERAL INFORMATION:  
; APPLICANT: Scanlan, Matthew  
; APPLICANT: Chen, Yao  
; APPLICANT: Stockert, Elisabeth  
; APPLICANT: Old, Lloyd  
; APPLICANT: Jager, Eike  
; APPLICANT: Knuth, Alex  
; TITLE OF INVENTION: Renal Cancer Associated Antigens and  
; TITLE OF INVENTION: Uses Therefor  
; FILE REFERENCE: 10461/7051  
; CURRENT APPLICATION NUMBER: US/09/166,350A  
; CURRENT FILING DATE: 1998-10-05  
; EARLIER APPLICATION NUMBER: US 09/166,350  
; EARLIER FILING DATE: 1998-10-05  
; NUMBER OF SEQ ID NOS: 35  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 28  
; LENGTH: 2619  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; US-09-166-350-28

Alignment Scores:  
Pred. No.: 206 Length: 2619  
Score: 7.00 Matches: 7  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 12.07% Indels: 0  
DB: 4 Gaps: 0

US-10-079-754A-10 (1-58) x US-09-166-350-28 (1-2619)

QY 3 IlePheIlePheValPheIle 9  
DB 564 ATCTTCATCTTTGTCCTCATC 544

## RESULT 13

US-08-486-663A-17/c  
; Sequence 17, Application US/08486663A  
; Patent No. 5968761  
; GENERAL INFORMATION:  
; APPLICANT: Rolfe, Mark  
; APPLICANT: Eckstein, Jens W.  
; APPLICANT: Draetta, Giulio  
; APPLICANT: Guillaume Cottarel  
; TITLE OF INVENTION: Ubiquitin Conjugating Enzymes  
; NUMBER OF SEQUENCES: 21  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LAHIVE & COCKFIELD  
; STREET: 60 State Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: ASCII(text)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/486,663A  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Vincent, Matthew P.

REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: M11-029CP2  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2624 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: both  
TOPOLOGY: linear  
MOLECULE TYPE: cdna  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..2625  
US-08-486-663A-17

Alignment Scores: 206 Length: 2624  
Pred. No.: 7.00 Matches: 7  
Score: 100.00% Conservative: 0  
Percent Similarity: 100.00% Mismatches: 0  
Best Local Similarity: 100.00% Indels: 0  
Query Match: 12.07% Gaps: 0  
DB: 2

US-10-079-754A-10 (1-58) x US-08-486-663A-17 (1-2624)

Qy 3 ilePheillePheValPheille 9  
Db 543 ATCTTCATCTTGTGCTTCATC 523

RESULT 14  
US-08-247-904B-7/c  
Sequence 7, Application US/08247904B  
Patent No. 5981699  
GENERAL INFORMATION:  
APPLICANT: Rolfe, Mark  
APPLICANT: Eckstein, Jens W.  
APPLICANT: Draetta, Giulio  
TITLE OF INVENTION: Human Ubiquitin Conjugating Enzyme  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley, Hoag & Eliot  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: ASCII(text)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/247,904B  
FILING DATE: 23-MAY-1994  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: M1V-029.01  
TELEPHONE: (617) 832-1000  
TELEFAX: (617) 832-7000  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2624 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: both  
TOPOLOGY: linear  
MOLECULE TYPE: cdna  
FEATURE:  
NAME/KEY: CDS

LOCATION: 1..2624  
US-08-247-904B-7

Alignment Scores: 206 Length: 2624  
Pred. No.: 7.00 Matches: 7  
Score: 100.00% Conservative: 0  
Percent Similarity: 100.00% Mismatches: 0  
Best Local Similarity: 100.00% Indels: 0  
Query Match: 12.07% Gaps: 0  
DB: 2

US-10-079-754A-10 (1-58) x US-08-247-904B-7 (1-2624)

Qy 3 ilePheillePheValPheille 9  
Db 543 ATCTTCATCTTGTGCTTCATC 523

RESULT 15  
US-08-767-942A-20/c  
Sequence 20, Application US/08767942A  
Patent No. 6068982  
GENERAL INFORMATION:  
APPLICANT: Rolfe, Mark  
APPLICANT: Chiu, M. Isabel  
APPLICANT: Berlin, Vivian  
APPLICANT: Damagnez, Veronique  
APPLICANT: Draetta, Giulio  
APPLICANT: Guillaume, Cottarel  
TITLE OF INVENTION: UBIQUITIN CONJUGATING ENZYMES  
NUMBER OF SEQUENCES: 45  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY, HOAG & ELIOT LLP  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109-2170  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/767,942A  
FILING DATE: 17-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: M1V-029.04  
TELEPHONE: 617-832-1000  
TELEFAX: 617-832-7000  
INFORMATION FOR SEQ ID NO: 20:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2624 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: both  
TOPOLOGY: linear  
MOLECULE TYPE: cdna  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..2622  
US-08-767-942A-20

Alignment Scores: 206 Length: 2624  
Pred. No.: 7.00 Matches: 7  
Score: 100.00% Conservative: 0  
Percent Similarity: 100.00% Mismatches: 0  
Best Local Similarity: 100.00% Indels: 0  
Query Match: 12.07% Gaps: 0  
DB: 3

US-10-079-754A-10 (1-58) x US-08-767-942A-20 (1-2624)

QY 3 IlePheIlePheValPheIle 9  
Db |||||  
543 ATCTTCATCTTTGTCTTCATC 523

Search completed: April 20, 2004, 05:56:40  
Job time : 107 secs

GenCore version 5.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: April 20, 2004, 05:51:26 ; Search time 331 Seconds

(without alignments)  
784.066 Million cell updates/sec

Title: US-10-079-754A-10

Perfect score: 58

Sequence: 1 MKIFIVFIMALILAMIRAD.....QQQYQYQRYPLNYPAYPFP 58

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Ygapop 60.0 , Ygapext 60.0  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 2890132 seqs, 2237290429 residues

Word size: 1

Total number of hits satisfying chosen parameters: 5772269

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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-DB=Published Applications NA -QFMT=fastap -SUFFIX=rnpb -MINMATCH=0.1  
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-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=quality -THR MIN=1  
-ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0  
-MAXLEN=2000000000 -USER=US10079754 @CEN 1 1 333 @runat\_19042004\_135109\_23727  
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-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THRRADS=1 -XGAPOP=60 -XGAPEXT=60  
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database :

Published Applications NA:  
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3: /cgn2\_6/ptodata/1/pubpna/US06\_NEW\_PUB.seq\*  
4: /cgn2\_6/ptodata/1/pubpna/US06\_PUBCOMB.seq\*  
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10: /cgn2\_6/ptodata/1/pubpna/US09B\_PUBCOMB.seq\*  
11: /cgn2\_6/ptodata/1/pubpna/US09C\_PUBCOMB.seq\*  
12: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq\*  
13: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq\*  
14: /cgn2\_6/ptodata/1/pubpna/US10A\_PUBCOMB.seq\*  
15: /cgn2\_6/ptodata/1/pubpna/US10B\_PUBCOMB.seq\*  
16: /cgn2\_6/ptodata/1/pubpna/US10C\_PUBCOMB.seq\*  
17: /cgn2\_6/ptodata/1/pubpna/US10\_NEW\_PUB.seq\*  
18: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq\*  
19: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Match	Length	ID	Description
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1	58	100.0	267	14	US-10-079-754A-15	Sequence 15, Appl
2	58	100.0	267	14	US-10-079-623-200	Sequence 200, App
3	58	100.0	505	14	US-10-079-754A-1	Sequence 1, Appl
4	58	100.0	604	14	US-10-079-754A-4	Sequence 4, Appl
5	51	87.9	585	14	US-10-079-754A-2	Sequence 2, Appl
6	34	58.6	525	14	US-10-079-754A-6	Sequence 6, Appl
7	27	46.6	869	14	US-10-079-754A-3	Sequence 3, Appl
8	11	19.0	96	14	US-10-079-754A-5	Sequence 5, Appl
c	9	15.5	7726	13	US-09-812-350-48	Sequence 48, Appl
9	8	13.8	131	13	US-09-918-995-8815	Sequence 8815, App
c	11	8	339	13	US-10-424-593-92870	Sequence 92870, A
12	8	13.8	330	10	US-09-918-995-8225	Sequence 8225, Ap
13	8	13.8	464	10	US-09-918-995-8118	Sequence 8118, Ap
c	14	8	870	15	US-10-198-846-5963	Sequence 5963, Ap
15	8	13.8	1485	13	US-10-425-114-31277	Sequence 31277, A
16	8	13.8	1605	15	US-10-198-846-13051	Sequence 13051, A
17	7	12.1	320	9	US-09-962-832-138	Sequence 138, App
18	7	12.1	320	9	US-09-954-531-1010	Sequence 1010, Ap
c	19	7	349	9	US-09-770-791-721	Sequence 721, App
c	20	7	349	13	US-10-283-122A-16688	Sequence 16688, A
21	7	12.1	358	9	US-09-917-800A-522	Sequence 522, App
22	7	12.1	358	16	US-10-191-803-1105	Sequence 1105, App
c	24	7	364	10	US-09-873-367C-617	Sequence 617, App
24	7	12.1	369	13	US-10-424-599-40304	Sequence 40304, A
c	25	7	412	9	US-09-860-670-20	Sequence 20, Appl
c	26	7	412	16	US-10-227-646-20	Sequence 20, Appl
c	27	7	427	9	US-09-960-352-10246	Sequence 10246, A
c	28	7	454	13	US-10-424-599-114944	Sequence 114944, A
c	29	7	485	10	US-09-918-995-32017	Sequence 32017, A
c	30	7	500	10	US-09-991-936-148	Sequence 148, App
c	31	7	509	13	US-10-424-599-36128	Sequence 36128, A
c	32	7	520	13	US-10-027-632-60602	Sequence 60602, A
c	33	7	520	13	US-10-027-632-60603	Sequence 60603, A
c	34	7	520	13	US-10-027-632-61489	Sequence 61489, A
c	35	7	520	13	US-10-027-632-61490	Sequence 61490, A
c	36	7	520	13	US-10-027-632-61688	Sequence 61688, A
c	37	7	520	13	US-10-027-632-61689	Sequence 61689, A
c	38	7	520	13	US-10-027-632-62287	Sequence 62287, A
c	39	7	520	13	US-10-027-632-62288	Sequence 62288, A
c	40	7	520	16	US-10-027-632-60602	Sequence 60602, A
c	41	7	520	16	US-10-027-632-60603	Sequence 60603, A
c	42	7	520	16	US-10-027-632-61489	Sequence 61489, A
c	43	7	520	16	US-10-027-632-61490	Sequence 61490, A
c	44	7	520	16	US-10-027-632-61688	Sequence 61688, A
c	45	7	520	16	US-10-027-632-61689	Sequence 61689, A

#### ALIGNMENTS

##### RESULT 1

US-10-079-754A-15  
; Sequence 15, Application US/10079754A  
; Publication No. US2002016425A1  
; GENERAL INFORMATION:  
; APPLICANT: Glenn, Matthew  
; APPLICANT: Grigor, Murray R.  
; APPLICANT: Molenaar, Adrian J.  
; APPLICANT: Davis, Stephen R.  
; TITLE OF INVENTION: Compositions Isolated from Bovine Mammary Gland and Methods for Their Use  
; FILE REFERENCE: 11000.1068  
; CURRENT APPLICATION NUMBER: US/10/079,754A  
; PRIOR FILING DATE: 2002-02-19  
; PRIOR APPLICATION NUMBER: US 09/699,146  
; PRIOR FILING DATE: 2000-10-27  
; PRIOR APPLICATION NUMBER: US 60,162,701  
; PRIOR FILING DATE: 1999-10-29  
; PRIOR APPLICATION NUMBER: US 09/644,190  
; PRIOR FILING DATE: 2000-08-22  
; PRIOR APPLICATION NUMBER: US 60,150,330  
; PRIOR FILING DATE: 1999-08-23  
; NUMBER OF SEQ ID NOS: 15

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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 267
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-15
Alignment Scores:
Pred. No.:      8,27e-54      Length:      267
Score:          58.00         Matches:     58
Percent Similarity: 100.00%   Conservative: 0
Best Local Similarity: 100.00% Mismatches:    0
Query Match:    100.00%      Indels:       0
DB:             14          Gaps:         0

US-10-079-754A-10 (1-58) x US-10-079-754A-15 (1-267)
QY      1 MetLyslePhelePheValPheMetAlaLeuIleuAlaMetIleArgAlaAsp 20
Db      44 ATGAAGATCTTTATCTTTGCTTCATTATGGCTCTCATCTAGCCATGATTAGAGCTGAT 103
QY      21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
Db      104 TCATCTGAAGAGAAACGTCACAGAAACGGAACAAACATCATAGAGGATATTTCAACAA 163
QY      41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyrProPhePro 58
Db      164 TACCAGCCATATCAACGATATCCACTAAATATATCTCTCGGTATCCATTTCCT 217

RESULT 2
US-10-079-623-200
; Sequence 200, Application US/10079623
; Publication No. US20020169302A1
; GENERAL INFORMATION:
; APPLICANT: Havukkala, Ilkka J.
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; TITLE OF INVENTION: Compositions isolated from bovine
; TITLE OF INVENTION: mammary gland and methods for their use.
; FILE REFERENCE: 11000.1044c3
; CURRENT APPLICATION NUMBER: US/10/079,623
; CURRENT FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 370
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 200
; LENGTH: 267
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-623-200
Alignment Scores:
Pred. No.:      8,27e-54      Length:      267
Score:          58.00         Matches:     58
Percent Similarity: 100.00%   Conservative: 0
Best Local Similarity: 100.00% Mismatches:    0
Query Match:    100.00%      Indels:       0
DB:             14          Gaps:         0

US-10-079-754A-10 (1-58) x US-10-079-623-200 (1-267)
QY      1 MetLyslePhelePheValPheMetAlaLeuIleuAlaMetIleArgAlaAsp 20
Db      44 ATGAAGATCTTTATCTTTGCTTCATTATGGCTCTCATCTAGCCATGATTAGAGCTGAT 103
QY      21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
Db      104 TCATCTGAAGAGAAACGTCACAGAAACGGAACAAACATCATAGAGGATATTTCAACAA 163
QY      41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyrProPhePro 58
Db      164 TACCAGCCATATCAACGATATCCACTAAATATATCTCTCGGTATCCATTTCCT 217

RESULT 3
US-10-079-754A-1
; Sequence 1, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions isolated from bovine
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use
; FILE REFERENCE: 11000.1088
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 505
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-1
Alignment Scores:
Pred. No.:      1,52e-53      Length:      505
Score:          58.00         Matches:     58
Percent Similarity: 100.00%   Conservative: 0
Best Local Similarity: 100.00% Mismatches:    0
Query Match:    100.00%      Indels:       0
DB:             14          Gaps:         0

US-10-079-754A-10 (1-58) x US-10-079-754A-1 (1-505)
QY      1 MetLyslePhelePheValPheMetAlaLeuIleuAlaMetIleArgAlaAsp 20
Db      44 ATGAAGATCTTTATCTTTGCTTCATTATGGCTCTCATCTAGCCATGATTAGAGCTGAT 103
QY      21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
Db      104 TCATCTGAAGAGAAACGTCACAGAAACGGAACAAACATCATAGAGGATATTTCAACAA 163
QY      41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyrProPhePro 58
Db      164 TACCAGCCATATCAACGATATCCACTAAATATATCTCTCGGTATCCATTTCCT 217

RESULT 4
US-10-079-754A-4
; Sequence 4, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions isolated from bovine
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330

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; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 604
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-4
Alignment Scores:
Pred. No.: 1.81e-53 Length: 604
Score: 58.00 Matches: 58
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-754A-4 (1-604)

Qy 1 MetLyslePheIlePheValPheIleMetAlaLeuAlaMetIleArgAlaasp 20
Db 154 ATGAAGATCTTATCTTTGCTTCTCATTATGGCTCTCATCTAGCCATGATTAGAGCTGAT 213
Qy 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
Db 214 TCATCTGAAGAGAAACGTCACAGGAACGGAAAAACATCATAGAGGATATTTCAACAA 273
Qy 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyrProPhePro 58
Db 274 TACCAGCCATATCAACGATATCCACTAAATATCTCTCTCGGTATCCATTTCCT 327

RESULT 5
US-10-079-754A-2
; Sequence 2, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigori, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 585
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-2
Alignment Scores:
Pred. No.: 6.43e-46 Length: 585
Score: 51.00 Matches: 51
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 87.93% Indels: 0
DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-754A-2 (1-585)

Qy 8 PheIleMetAlaLeuIleAlaMetIleArgAlaaspSerSerGluGluLysArgHis 27
Db 8 PheIleMetAlaLeuIleAlaMetIleArgAlaaspSerSerGluGluLysArgHis 27

; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 604
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-4
Alignment Scores:
Pred. No.: 1.81e-53 Length: 604
Score: 58.00 Matches: 58
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-754A-4 (1-604)

Qy 1 MetLyslePheIlePheValPheIleMetAlaLeuAlaMetIleArgAlaasp 20
Db 154 ATGAAGATCTTATCTTTGCTTCTCATTATGGCTCTCATCTAGCCATGATTAGAGCTGAT 213
Qy 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
Db 214 TCATCTGAAGAGAAACGTCACAGGAACGGAAAAACATCATAGAGGATATTTCAACAA 273
Qy 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyrProPhePro 58
Db 274 TACCAGCCATATCAACGATATCCACTAAATATCTCTCTCGGTATCCATTTCCT 327

RESULT 6
US-10-079-754A-6
; Sequence 6, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigori, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 525
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-6
Alignment Scores:
Pred. No.: 1.37e-27 Length: 525
Score: 34.00 Matches: 34
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 58.62% Indels: 0
DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-754A-6 (1-525)

Qy 1 MetLyslePheIlePheValPheIleMetAlaLeuAlaMetIleArgAlaasp 20
Db 43 ATGAAGATCTTATCTTTGCTTCTCATTATGGCTCTCATCTAGCCATGATTAGAGCTGAT 102
Qy 21 SerSerGluGluLysArgHisArgLysArgLysLysHisHis 34
Db 103 TCATCTGAAGAGAAACGTCACAGGAACGGAAAAACATCAT 144

RESULT 7
US-10-079-754A-3
; Sequence 3, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigori, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
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; PRIOR FILING DATE: 2000-10-27  
 ; PRIOR APPLICATION NUMBER: US 60,162,701  
 ; PRIOR FILING DATE: 1999-10-29  
 ; PRIOR APPLICATION NUMBER: US 09/644,190  
 ; PRIOR FILING DATE: 2000-08-22  
 ; PRIOR APPLICATION NUMBER: US 60,150,330  
 ; PRIOR FILING DATE: 1999-08-23  
 ; NUMBER OF SEQ ID NOS: 15  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 3  
 ; LENGTH: 869  
 ; TYPE: DNA  
 ; ORGANISM: Bovine  
 US-10-079-754A-3

Alignment Scores:  
 Pred. No.: 8,12e-20 Length: 869  
 Score: 27.00 Matches: 27  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 46.55% Indels: 0  
 DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-754A-3 (1-869)

Qy 8 PheileMetAlaLeulleAlaMetileArgAlaAspSerSerGlulLysArgHis 27  
 Db 93 TTCATATGCTCTCATCTCTAGCCATGATAGAGCTGATTCATCTGCAAGAAACGTCTAC 152

Qy 28 ArgLysArgLysLysHisHis 34  
 Db 153 AGGAAACGGAAAAAACATCAT 173

# RESULT 8

US-10-079-754A-5  
 ; Sequence 5, Application US/10079754A  
 ; Publication No. US20020164625A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Glenn, Matthew  
 ; APPLICANT: Grigor, Murray R.  
 ; APPLICANT: Molenaar, Adrian J.  
 ; APPLICANT: Davis, Stephen R.  
 ; TITLE OF INVENTION: Compositions Isolated from Bovine  
 ; TITLE OF INVENTION: Mammary Gland and Methods for Their Use  
 ; FILE REFERENCE: 11000.1068  
 ; CURRENT APPLICATION NUMBER: US/10/079,754A  
 ; CURRENT FILING DATE: 2002-02-19  
 ; PRIOR APPLICATION NUMBER: US 09/699,146  
 ; PRIOR FILING DATE: 2000-10-27  
 ; PRIOR APPLICATION NUMBER: US 60,162,701  
 ; PRIOR FILING DATE: 1999-10-29  
 ; PRIOR APPLICATION NUMBER: US 09/644,190  
 ; PRIOR FILING DATE: 2000-08-22  
 ; PRIOR APPLICATION NUMBER: US 60,150,330  
 ; PRIOR FILING DATE: 1999-08-23  
 ; NUMBER OF SEQ ID NOS: 15  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 5  
 ; LENGTH: 96  
 ; TYPE: DNA  
 ; ORGANISM: Bovine  
 US-10-079-754A-5

Alignment Scores:  
 Pred. No.: 0.00193 Length: 96  
 Score: 11.00 Matches: 11  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 18.97% Indels: 0  
 DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-754A-5 (1-96)

Qy 46 ArgTyrProLeuAsnTyrProProAlaTyrPro 56  
 Db 25 CGATATCCACTAAATATATCTCTCGGTATCCA 57

# RESULT 9

US-09-812-350-48/C  
 ; Sequence 48, Application US/09812350  
 ; Publication No. US20020053097A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Lindquist, Susan  
 ; APPLICANT: Queitsch, Christine  
 ; APPLICANT: Vierling, Elizabeth  
 ; TITLE OF INVENTION: Transgenic Plants Containing Heat Shock Protein  
 ; FILE REFERENCE: P01979US2  
 ; CURRENT APPLICATION NUMBER: US/09/812,350  
 ; CURRENT FILING DATE: 2001-03-20  
 ; PRIOR APPLICATION NUMBER: US 60/190,769  
 ; PRIOR FILING DATE: 2000-03-20  
 ; PRIOR APPLICATION NUMBER: US 60/198,116  
 ; PRIOR FILING DATE: 2000-04-18  
 ; NUMBER OF SEQ ID NOS: 49  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 48  
 ; LENGTH: 7726  
 ; TYPE: DNA  
 ; ORGANISM: Leishmania donovani  
 US-09-812-350-48

Alignment Scores:  
 Pred. No.: 18.6 Length: 7726  
 Score: 9.00 Matches: 9  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 15.52% Indels: 0  
 DB: 13 Gaps: 0

US-10-079-754A-10 (1-58) x US-09-812-350-48 (1-7726)

Qy 25 LysArgHisArgLysArgLysHis 33

Db 6106 AAACGGCACAGAAAAAGAAACAT 6080

# RESULT 10

US-09-918-995-8815  
 ; Sequence 8815, Application US/09918995  
 ; Publication No. US20030073623A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Hyseq, Inc.  
 ; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED  
 ; FILE REFERENCE: 20411-756  
 ; CURRENT APPLICATION NUMBER: US/09/918,995  
 ; CURRENT FILING DATE: 2001-07-30  
 ; PRIOR APPLICATION NUMBER: US/09/235,076  
 ; PRIOR FILING DATE: 1999-01-20  
 ; NUMBER OF SEQ ID NOS: 38054  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 8815  
 ; LENGTH: 181  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: misc feature  
 ; LOCATION: (1)...(181)  
 ; OTHER INFORMATION: n = A,T,C or G  
 US-09-918-995-8815

Alignment Scores:  
 Pred. No.: 6.18 Length: 181  
 Score: 8.00 Matches: 8  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 13.79% Indels: 0

DB: 10 Gaps: 0  
US-10-079-754A-10 (1-58) x US-09-918-995-8815 (1-181)  
QY 10 MetAlaLeuIleLeuAlaMetIle 17  
Db 92 ATGGCTTTGATTGGCGATGATC 115

RESULT 11  
US-10-424-599-92870/C  
; Sequence 92870, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa Thomas J  
; APPLICANT: Kovalic David K  
; APPLICANT: Zhou Yihua  
; APPLICANT: Cao Yongwei  
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53223)B  
; CURRENT APPLICATION NUMBER: US/10/424,599  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 285684  
; SEQ ID NO 92870  
; LENGTH: 339  
; TYPE: DNA  
; ORGANISM: Glycine max  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_54877C.1  
US-10-424-599-92870

Alignment Scores:  
Pred. No.: 11.3 Length: 339  
Score: 8.00 Matches: 8  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 13.79% Indels: 0  
Gaps: 0  
DB: 13

US-10-079-754A-10 (1-58) x US-10-424-599-92870 (1-339)

QY 16 MetIleArgAlaAspSerSerglu 23  
Db 225 ATGATCCGCGCAGACTCGAGTGTGAG 202

RESULT 12  
US-09-918-995-8225  
; Sequence 8225, Application US/09918995  
; Publication No. US20030073623A1  
; GENERAL INFORMATION:  
; APPLICANT: Hyseq, Inc.  
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED  
; FILE REFERENCE: 20411-756  
; CURRENT APPLICATION NUMBER: US/09/918,995  
; CURRENT FILING DATE: 2001-07-30  
; PRIOR APPLICATION NUMBER: US/09/235,076  
; PRIOR FILING DATE: 1999-01-20  
; NUMBER OF SEQ ID NOS: 38054  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 8225  
; LENGTH: 390  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-918-995-8225

Alignment Scores:  
Pred. No.: 12.9 Length: 390  
Score: 8.00 Matches: 8  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 13.79% Indels: 0  
Gaps: 0  
DB: 10

US-10-079-754A-10 (1-58) x US-09-918-995-8225 (1-390)  
QY 10 MetAlaLeuIleLeuAlaMetIle 17  
Db 137 ATGGCTTTGATTGGCGATGATC 160

RESULT 13  
US-09-918-995-8118  
; Sequence 8118, Application US/09918995  
; Publication No. US20030073623A1  
; GENERAL INFORMATION:  
; APPLICANT: Hyseq, Inc.  
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED  
; FILE REFERENCE: 20411-756  
; CURRENT APPLICATION NUMBER: US/09/918,995  
; CURRENT FILING DATE: 2001-07-30  
; PRIOR APPLICATION NUMBER: US/09/235,076  
; PRIOR FILING DATE: 1999-01-20  
; NUMBER OF SEQ ID NOS: 38054  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 8118  
; LENGTH: 464  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(464)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-918-995-8118

Alignment Scores:  
Pred. No.: 15.2 Length: 464  
Score: 8.00 Matches: 8  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 13.79% Indels: 0  
Gaps: 0  
DB: 10

US-10-079-754A-10 (1-58) x US-09-918-995-8118 (1-464)

QY 10 MetAlaLeuIleLeuAlaMetIle 17  
Db 254 ATGGCTTTGATTGGCGATGATC 277

RESULT 14  
US-10-198-846-5963/c  
; Sequence 5963, Application US/10198846  
; Publication No. US2003009974A1  
; GENERAL INFORMATION:  
; APPLICANT: Lillie, James  
; APPLICANT: Xu, Yongyao  
; APPLICANT: Wang, Youzhen  
; APPLICANT: Steinmann, Kathleen  
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS  
; TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND  
; TITLE OF INVENTION: THERAPY OF BREAST CANCER  
; FILE REFERENCE: MEI-049  
; CURRENT APPLICATION NUMBER: US/10/198,846  
; CURRENT FILING DATE: 2002-07-18  
; PRIOR APPLICATION NUMBER: 60/306,220  
; PRIOR FILING DATE: 2001-07-18  
; NUMBER OF SEQ ID NOS: 14084  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5963  
; LENGTH: 870  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 26, 412, 496, 541, 543, 646, 649, 653, 711, 730, 742, 764,  
; LOCATION: 768, 779, 781, 785, 795, 800, 804, 809, 811, 821, 823, 829,  
;

; LOCATION: 830, 832, 839, 851, 853, 868, 870  
; OTHER INFORMATION: n = A,T,C or G  
US-10-198-846-5963

Alignment Scores:  
Pred. No.: 27.8 Length: 870  
Score: 8.00 Matches: 8  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 13.79% Indels: 0  
DB: 15 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-198-846-5963 (1-870)

Qy 10 MetAlaLeuIleLeuAlaMetIle 17  
Db 121 ATGCGTTTGATTGGCGATGATC 98

RESULT 15

US-10-425-114-31277  
; Sequence 31277, Application US/10425114  
; Publication No. US2004003488A1  
; GENERAL INFORMATION:  
; APPLICANT: Liu, Jingdong  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Screen, Steven E.  
; APPLICANT: Tabaska, Jack E.  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53313)B  
; CURRENT APPLICATION NUMBER: US/10/425,114  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 73128  
; SEQ ID NO 31277  
; LENGTH: 1485  
; TYPE: DNA  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: UC-ZMFLB73150C02\_FLI  
US-10-425-114-31277

Alignment Scores:  
Pred. No.: 46.3 Length: 1485  
Score: 8.00 Matches: 8  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 13.79% Indels: 0  
DB: 13 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-425-114-31277 (1-1485)

Qy 51 TyrProProlaTyrProPhePro 58  
Db 252 TATGCTCTGCATATCCATTTCCT 275

Search completed: April 20, 2004, 07:00:02  
Job time : 347 secs

OM protein - protein search, using sw model

Run on: April 19, 2004, 15:33:25 ; Search time 23 Seconds  
(without alignments)  
130.187 Million cell updates/sec

Title: US-10-079-754A-10  
Perfect score: 316  
Sequence: 1 MKIFIFVFIMAILAMIRAD.....QQQYQYQYPLNYPAYPPF 58

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/prodata/2/iaa/5A-COMB.pep:\*  
2: /cgn2\_6/prodata/2/iaa/5B-COMB.pep:\*  
3: /cgn2\_6/prodata/2/iaa/6A-COMB.pep:\*  
4: /cgn2\_6/prodata/2/iaa/6B-COMB.pep:\*  
5: /cgn2\_6/prodata/2/iaa/PCTUS-COMB.pep:\*  
6: /cgn2\_6/prodata/2/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	63	19.9	182	1 US-07-962-569A-8	Sequence 8, Appli
2	63	19.9	182	1 US-08-308-883-2	Sequence 2, Appli
3	63	19.9	182	1 US-08-730-163-2	Sequence 2, Appli
4	63	19.9	182	3 US-08-256-799-2	Sequence 2, Appli
5	63	19.9	182	3 US-08-462-437-2	Sequence 2, Appli
6	63	19.9	182	3 US-08-462-437-31	Sequence 31, Appl
7	62	19.6	248	4 US-09-252-991A-27856	Sequence 20, Appl
8	61.5	19.5	729	4 US-09-625-188-20	Sequence 4463, Ap
9	61	19.3	620	4 US-09-134-000C-4463	Sequence 16948, A
10	59.5	18.8	271	4 US-09-252-991A-16848	Sequence 27348, A
11	59	18.7	225	4 US-09-252-991A-27348	Sequence 21881, A
12	59	18.7	720	4 US-09-252-991A-21881	Sequence 27419, A
13	58.5	18.5	247	4 US-09-252-991A-27419	Sequence 20994, A
14	58.5	18.5	333	4 US-09-252-991A-20994	Sequence 30311, A
15	58	18.4	521	4 US-09-252-991A-30311	Sequence 4, Appli
16	58	18.4	585	4 US-09-196-270-4	Sequence 2, Appli
17	57.5	18.2	404	3 US-09-046-578-2	Sequence 30799, A
18	56.5	17.9	997	4 US-09-252-991A-30799	Sequence 6, Appli
19	56.5	17.9	1290	3 US-09-150-460B-6	Sequence 4, Appli
20	56.5	17.9	1619	4 US-09-392-812A-4	Sequence 103, App
21	56	17.7	137	4 US-09-247-155-109	Sequence 164, App
22	56	17.7	155	4 US-09-148-545-164	Sequence 225, App
23	56	17.7	155	4 US-09-148-545-225	Sequence 12246, A
24	56	17.7	172	4 US-09-489-039A-12246	Sequence 32443, A
25	56	17.7	279	4 US-09-252-991A-32443	Sequence 6, Appli
26	56	17.7	281	2 US-08-284-465-6	Sequence 9137, Ap
27	56	17.7	413	4 US-09-489-039A-9137	

Sequence 2, Appli  
Sequence 24042, A  
Sequence 29449, A  
Sequence 19832, A  
Sequence 30139, A  
Sequence 1, Appli  
Sequence 1, Appli  
Sequence 17181, A  
Sequence 18391, A  
Sequence 3597, Ap  
Sequence 23488, A  
Sequence 27610, A  
Sequence 20859, A  
Sequence 29952, A  
Sequence 32293, A  
Sequence 29075, A  
Sequence 6, Appli  
Sequence 25, Appli

28 56 17.7 699 4 US-09-759-359A-2  
29 55.5 17.6 302 4 US-09-252-991A-24042  
30 55.5 17.6 464 4 US-09-252-991A-29449  
31 55 17.4 140 4 US-09-252-991A-19832  
32 55 17.4 302 4 US-09-252-991A-30139  
33 55 17.4 471 3 US-08-866-928B-1  
34 55 17.4 471 3 US-09-685-836-1  
35 55 17.4 643 4 US-09-252-991A-17181  
36 55 17.4 703 4 US-09-252-991A-18391  
37 54.5 17.2 231 4 US-09-134-001C-3597  
38 54.5 17.2 393 4 US-09-252-991A-23488  
39 54.5 17.2 420 4 US-09-252-991A-27610  
40 54 17.1 282 4 US-09-252-991A-20859  
41 54 17.1 286 4 US-09-252-991A-29952  
42 54 17.1 295 4 US-09-252-991A-32293  
43 54 17.1 403 4 US-09-252-991A-29075  
44 54 17.1 431 4 US-09-549-848B-6  
45 54 17.1 477 1 US-08-453-956-25

ALIGNMENTS

RESULT 1  
US-07-962-569A-8  
; Sequence 8, Application US/07962569A  
; Patent No. 5391497  
; GENERAL INFORMATION:  
; APPLICANT: MENON, RAVI S.  
; APPLICANT: JEFFERS, KATHLEEN F.  
; APPLICANT: CHANG, YING-FON  
; APPLICANT: HAM, RICHARD G.  
; TITLE OF INVENTION: HUMAN K-CASEIN  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: FREDERICK W. PEPPER, PH.D.  
; STREET: 11545 W. BERNARDO COURT, STE. 302  
; CITY: SAN DIEGO  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 92127  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/962,569A  
; FILING DATE: 19921013  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: PEPPER PH.D., FREDERICK W.  
; REGISTRATION NUMBER: 31,286  
; REFERENCE/DOCKET NUMBER: 920224.01  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (619) 451-1120  
; TELEFAX: (619) 451-9628  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 182 amino acids  
; TYPE: AMINO ACID  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-07-962-569A-8

Query Match 19.9%; Score 63; DB 1; Length 182;  
Best Local Similarity 28.8%; Pred. No. 2.3;  
Matches 17; Conservative 13; Mismatches 25; Indels 4; Gaps 3;

QY 1 MKIFIFVF-IMAILAMIRADSEKKRHRKXKHRRGYFOQYQYQYPLNY-PPAYPP 57  
DB 1 MKSFLVNNALATLFLAVEVQKQKQKCHENDERPFYQKTAPY--VPMYYVNSY 57

RESULT 2  
US-08-308-883-2  
; Sequence 2, Application US/08308883  
; Patent No. 5576300  
; GENERAL INFORMATION:  
; APPLICANT: Mukerji, P. A.  
; APPLICANT: Prieto, P. A.  
; APPLICANT: Seo, A. E.-Y.  
; APPLICANT: Baxter, J. H.  
; APPLICANT: Cummings, R.D.  
; TITLE OF INVENTION: Method for Inhibition of Human Rotavirus Infection.  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lonnie R. Drayer  
; ADDRESSEE: ROSS Products Division  
; ADDRESSEE: Abbott Laboratories  
; STREET: 625 Cleveland Avenue  
; CITY: Columbus  
; STATE: Ohio  
; COUNTRY: United States  
; ZIP: 43215  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5 inch, 1.44 Mb storage  
; COMPUTER: Apple Macintosh  
; OPERATING SYSTEM: Macintosh System 7.1  
; SOFTWARE: ClarisWorks 1.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/308,883  
; FILING DATE: 16-SEP-1994  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA: No. 5576300 applicable  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (614) 624-3774  
; TELEFAX: (614) 624-3074  
; TELEX: No. 5576300e  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 182 amino acids  
; TYPE: Amino acid  
; STRANDEDNESS:  
; TOPOLOGY: Linear  
; MOLECULE TYPE: Protein.  
; DESCRIPTION:  
; HYPOTHEICAL:  
; ANTI-SENSE:  
; FRAGMENT TYPE:  
; ORIGINAL SOURCE:  
; ORGANISM:  
; STRAIN:  
; INDIVIDUAL ISOLATE:  
; DEVELOPMENTAL STAGE:  
; HAPLOTYPE:  
; TISSUE TYPE:  
; CELL LINE:  
; ORGANELLE:  
; IMMEDIATE SOURCE:  
; LIBRARY:  
; CLONE:  
; POSITION IN GENOME:  
; CHROMOSOME/SEGMENT:  
; MAP POSITION:  
; UNITS:  
; FEATURES:  
; NAME/KEY:  
; LOCATION:  
; IDENTIFICATION METHOD:  
; OTHER INFORMATION:  
; PUBLICATION INFORMATION:  
; AUTHORS: L. Hansson et al  
; TITLE: DNA Encoding Kappa-Casein, Process for Obtaining the Protein and Use The  
; JOURNAL:

VOLUME:  
ISSUE:  
PAGES:  
DATE:  
DOCUMENT NUMBER: PCT/WO93/15196  
FILING DATE: 25-JAN-1993  
PUBLICATION DATE: 05-AUG-1993  
RELEVANT RESIDUES IN SEQ ID NO:  
US-08-308-883-2  
Query Match 19.9%; Score 63; DB 1; Length 182;  
Best Local Similarity 28.8%; Pred. No. 2.3;  
Matches 17; Conservative 13; Mismatches 25; Indels 4; Gaps 3;  
OY 1 MKRTIFVF-INALILAMIRADSSEKGRKKGKHHRGYFQQYQYQYPLNY-PPAYPF 57  
Db 1 MKSFLVNALALTLPFLAVEVQKQKPACHENDERPFYQKTAFY--VPMYYVENSYPY 57  
RESULT 3  
US-08-730-163-2  
; Sequence 2, Application US/08730163  
; Patent No. 5712250  
; GENERAL INFORMATION:  
; APPLICANT: Mukerji, P. A.  
; APPLICANT: Prieto, P. A.  
; APPLICANT: Seo, A. E.-Y.  
; APPLICANT: Baxter, J. H.  
; APPLICANT: Cummings, R.D.  
; TITLE OF INVENTION: Product for Inhibition of Human Rotavirus Infection.  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lonnie R. Drayer  
; ADDRESSEE: ROSS Products Division  
; ADDRESSEE: Abbott Laboratories  
; STREET: 625 Cleveland Avenue  
; CITY: Columbus  
; STATE: Ohio  
; COUNTRY: United States  
; ZIP: 43215  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5 inch, 1.44 Mb storage (B) COMPUTER: Apple Macintosh  
; OPERATING SYSTEM: Macintosh System 7.1 (D) SOFTWARE: ClarisWorks 1.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/730,163  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/308,882  
; FILING DATE: 16-SEP-1994  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (614) 624-3774  
; TELEFAX: (614) 624-3074  
; TELEX: No. 5712250e  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 182 amino acids  
; TYPE: Amino acid  
; STRANDEDNESS:  
; TOPOLOGY: Linear  
; MOLECULE TYPE: Protein.  
; DESCRIPTION:  
; HYPOTHEICAL:  
; ANTI-SENSE:  
; FRAGMENT TYPE:  
; ORIGINAL SOURCE:  
; ORGANISM:  
; STRAIN:  
; INDIVIDUAL ISOLATE:  
; DEVELOPMENTAL STAGE:  
; HAPLOTYPE:  
; TISSUE TYPE:  
; CELL TYPE:



D5 1 MKSFLLVNALTLPFLAVEVQNQKPACHENDERPFYQKTAPY--VPMYYVPNSYPY 57

RESULT 6  
US-08-462-437-31  
; Sequence 31, Application US/08462437  
; Patent No. 6232094  
; GENERAL INFORMATION:  
; APPLICANT: HANSSON, Lennart  
; APPLICANT: STROEMOVIST, Mats  
; APPLICANT: BERGSTROEM, Sven  
; APPLICANT: HERNELL, Olle  
; APPLICANT: TORNELL, Jan  
; TITLE OF INVENTION: DNA ENCODING KAPPA-CASEIN, PROCESS  
; TITLE OF INVENTION: FOR OBTAINING THE PROTEIN AND USE THEREOF  
; NUMBER OF SEQUENCES: 31  
; CORRESPONDENCE ADDRESS:

ADDRESS: BROWDY AND NEIMARK  
STREET: 419 Seventh Street, N.W., Suite 300  
City: Washington  
STATE: D.C.  
COUNTRY: USA

ZIP: 20004  
 COMPUTER READABLE FORM:  
 MEDIA TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/452,437  
 FILING DATE: 05-JUN-1995

PRIOR APPLICATION DATA: 11  
APPLICATION NUMBER: DK 88/92 12  
FILING DATE: 23-JAN-1992 13  
ATTORNEY/AGENT INFORMATION: 14  
NAME: COOPER, Ivar P. 15  
REGISTRATION NUMBER: 28,005 16  
REFERENCE/DOCKET NUMBER: HANSSON-1A 17  
TELECOMMUNICATION INFORMATION: 18  
TELEPHONE: 202-628-5197 19  
TELEFAX: 202-737-3528 20  
TELEX: 246833 21  
INFORMATION FOR SEQ ID NO: 31: 22  
SEQUENCE CHARACTERISTICS: 23  
LENGTH: 182 amino acids 24  
TYPE: amino acid 25  
TOPOLOGY: linear 26  
MOLECULE TYPE: protein 27  
US-08-462-437-31 28

Query Match	19.9%;	Score 63;	DB 3;	Length 182;
Best Local Similarity	28.8%;	Pred. No. 2.3;		
Matches 17;	Conservative	13;	Mismatches 25;	Indels 3;
			Gaps 4;	Gaps 3;

**Qy**

1 MKIFTFVF-IMALILAMIRADSEEKRRKRGHGYFQQYPYQRPLNY-PPAYPF 57  
||| : | || : : : : :  
||| : | || : : : : :

**Db**

1 MKSFLVNNALATLPFAVEONOKOPACHENDERFPFYOKTAPY--VPMYVNSPY 57  
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RESULT 7  
US-09-252-991A-27856  
; Sequence 27856, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:

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; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 27856
; LENGTH: 248
; TYPE: prt
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-37856

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Query Match          19.6%; Score 62; DB 4; Length 248;
Best Local Similarity 55.6%; Pred. No. 4.2;
Matches 10; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 26 RHKKKKHGRGYFQQYQP 43
   |||||:|:|
Db 40 RHRRRRHGRGNPQRRRP 57

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RESULT 8  
US-09-625-188-20  
; Sequence 20, Application US/09625188  
; Patent No. 6307037

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/ APPLICANT: No. 6307037artis AG
/ TITLE OF INVENTION: Fungal Target Genes and Methods
/ FILE REFERENCE: PS/5-31285f1
/ CURRENT APPLICATION NUMBER: US/09/625,188
/ CURRENT FILING DATE: 2000-07-21
/ NUMBER OF SEQ ID NOS: 44
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 20
/ LENGTH: 729
/ TYPE: PRT
/ ORGANISM: Ashbya gossypii
US-09-625-188-20

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Query Match      19.5%; Score 61.5; DB 4; Length 729;
Best Local Similarity 32.4%; Pred. No. 16;
Matches 12; Conservative 9; Mismatches 15; Indels 1; Gaps 1;
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RESULT 9  
US-09-134-000C-4463  
; Sequence 4463, Application US/09134000C  
; Patent No. 6617156  
; GENERAL INFORMATION.

```

/ APPLICANT: Lynn Doucette-Stamm et al
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
/ TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
/ FILE REFERENCE: 032796-032
/ CURRENT APPLICATION NUMBER: US/09/134,000C
/ CURRENT FILING DATE: 1998-08-13
/ PRIOR APPLICATION NUMBER: US 60/055,778
/ PRIOR FILING DATE: 1997-08-15
/ NUMBER OF SEQ ID NOS: 6812
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 4463
/ LENGTH: 620
/ TYPE: prt
/ ORGANISM: Enterococcus faecalis
/ US-09-134-000C-4463

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Query Match      19.3%; Score 61; DB 4; Length 620;
Best Local Similarity 39.5%; Pred. No. 15;
Matches 17; Conservative 7; Mismatches 9; Indels 10; Gaps 3;

Qy 12 LILAMIRADSSSEKRRKR-----KQHRGYQQQYQY-ORYP 48
      | | | | |
Db 16 LILKSTK----KSLRRRIIPMOTKKIHFGASRFKPYLLRYP 54
      | | | | |

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; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21881
; LENGTH: 720
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-21881

Query Match      18.7%; Score 59; DB 4; Length 720;
Best Local Similarity 29.8%; Pred. NO. 32;
Matches 14; Conservative 8; Mismatches 15; Indels 10; Gaps 1;

Qy      18 RADSSSEKHKRKKKH-----RCYFQYQYQYQYPLNYP 54
Db      325 RAGQCFRRHRQRRHHPGGRPAGRPAGTGTGQGPARRPRPA 371

RESULT 13
US-09-252-991A-27419
; Sequence 27419, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 27419
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-27419

Query Match      18.5%; Score 58.5; DB 4; Length 247;
Best Local Similarity 39.4%; Pred. NO. 11;
Matches 13; Conservative 6; Mismatches 11; Indels 3; Gaps 1;

Qy      18 RADSSSEKHKRKKHHRGYFQYQYQYQYPLN 50
Db      60 RRTDQGRHPRRLDHRHRQQPP---HPLN 89

RESULT 14
US-09-252-991A-20994
; Sequence 20994, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 20994
; LENGTH: 333
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-20994

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RESULT 10
US-09-252-991A-16848
; Sequence 16848, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 16848
; LENGTH: 271
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-16848

Query Match 18.8%; Score 59.5; DB 4; Length 271;
Best Local Similarity 39.0%; Pred. No. 9.4;
Matches 16; Conservative 8; Mismatches 14; Indels 3; Gaps 2;

Qy 19 ADSSSEKRRKKKH--HRGYFOQ-YQPYQRYPLNPPAYP 56
| : : : : : : : : : : : : : : : :
Db 109 AQAGEQVRQRREKDAADQGEARQTVEPPQFHFLAIDPAYP 149
| : : : : : : : : : : : : : : : :

RESULT 11
US-09-252-991A-27348
; Sequence 27348, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 27348
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-27348

Query Match 18.7%; Score 59; DB 4; Length 225;
Best Local Similarity 33.3%; Pred. No. 8.9;
Matches 18; Conservative 7; Mismatches 9; Indels 20; Gaps 3;

Qy 18 RADSSSEKRRKKKH-----RGYFQQYQPYQ-RYPLNPPA 54
| : : : : : : : : : : : : : : : :
Db 124 RAD---RQRHRRRRYHFRADRGQRGAQDSRPGQPRQEPGQGAQEPADPPA 174
| : : : : : : : : : : : : : : : :

RESULT 12
US-09-252-991A-21881
; Sequence 21881, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A

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Query Match 18.5%; Score 58.5; DB 4; Length 333;  
Best Local Similarity 38.7%; Pred. No. 16;  
Matches 12; Conservative 5; Mismatches 11; Indels 3; Gaps 1;  
QY 25 KHRK--KHHRGYFQQYQYQYPLNYP 52  
Db 114 RHHRPDQTHHGRGLRQGLPVRLPADHP 144

RESULT 15  
US-09-252-991A-30311  
; Sequence 30311, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 30311  
; LENGTH: 521  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-30311

Query Match 18.4%; Score 58; DB 4; Length 521;  
Best Local Similarity 36.7%; Pred. No. 30;  
Matches 18; Conservative 6; Mismatches 21; Indels 4; Gaps 2;  
QY 12 LILAMIRADSSE--EKHRKRXKHHRGYFQQYQYQYPLNYPYPP 58  
Db 45 LIRRTIAAQGVIEVHRRHRLHGHPLRQRQLORQ--RHRPAHQR 91

Search completed: April 19, 2004, 15:39:07  
Job time : 24 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: April 19, 2004, 15:37:41 ; Search time 41 Seconds  
(Without alignments)  
389.977 Million cell updates/sec

Title: US-10-079-754A-10  
Perfect score: 316  
Sequence: 1 MKKIFVFMALILAMIRAD.....QQYQYQRYPLNPPAYPPF 58

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:  
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2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep:  
3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep:  
4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep:  
5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep:  
6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pep:  
7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep:  
8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep:  
9: /cgn2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pep:  
10: /cgn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pep:  
11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep:  
12: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pep:  
13: /cgn2\_6/ptodata/2/pubpaa/US10A\_PUBCOMB.pep:  
14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep:  
15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep:  
16: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep:  
17: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep:  
18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	316	100.0	58	13	US-10-079-754A-7
2	316	100.0	58	13	US-10-079-754A-10
3	315	99.7	58	13	US-10-079-754A-8
4	170	53.8	59	13	US-10-079-754A-12
5	169	53.5	70	13	US-10-079-754A-9
6	112	35.4	21	13	US-10-079-754A-11
7	110	34.8	62	12	US-10-210-172-168
8	95	30.1	51	9	US-09-917-340-19
9	94.5	29.9	78	10	US-09-992-600A-6
10	94.5	29.9	78	10	US-09-924-340-6
11	94.5	29.9	78	10	US-09-992-095B-6
12	94.5	29.9	78	10	US-09-999-570-6
13	94.5	29.9	78	14	US-10-000-489-6
14	94.5	29.9	78	14	US-10-000-986-6
15	94.5	29.9	78	14	US-10-154-678-6

16	69	21.8	229	12	US-10-282-122A-71761	Sequence 71761, A
17	65	20.6	1504	15	US-10-374-780A-1457	Sequence 1457, Ap
18	65	20.6	1562	15	US-10-374-780A-1458	Sequence 1458, Ap
19	65	20.6	1562	15	US-10-374-780A-1459	Sequence 1459, Ap
20	63	19.9	103	12	US-10-154-671-33	Sequence 33, Appl
21	63	19.9	103	14	US-10-143-077-33	Sequence 33, Appl
22	63	19.9	182	15	US-10-190-115-50	Sequence 50, Appl
23	63	19.9	182	15	US-10-190-115-51	Sequence 51, Appl
24	63	19.9	182	15	US-10-190-115-52	Sequence 52, Appl
25	63	19.9	182	15	US-10-369-072-50	Sequence 50, Appl
26	63	19.9	182	15	US-10-369-072-51	Sequence 51, Appl
27	63	19.9	182	15	US-10-369-072-52	Sequence 52, Appl
28	63	19.9	407	12	US-10-425-114-53366	Sequence 53366, A
29	63	19.9	483	12	US-10-425-114-56614	Sequence 56614, A
30	62	19.6	54	11	US-09-864-408A-2332	Sequence 2332, Ap
31	62	19.6	317	12	US-10-424-598-159483	Sequence 159483, Ap
32	61.5	19.5	111	12	US-10-424-598-152484	Sequence 152484, Ap
33	61.5	19.5	1390	12	US-10-092-900A-224	Sequence 224, App
34	61	19.3	260	12	US-10-424-599-228404	Sequence 228404, App
35	60.5	19.1	141	12	US-10-424-599-151674	Sequence 151674, App
36	60.5	19.1	504	8	US-08-980-068B-21	Sequence 21, Appl
37	60	19.0	255	15	US-10-104-047-3876	Sequence 3876, Ap
38	60	19.0	684	12	US-10-425-114-66859	Sequence 66859, A
39	59.5	18.8	179	12	US-10-424-599-218681	Sequence 218681, App
40	59.5	18.8	183	12	US-10-424-599-218680	Sequence 218680, App
41	58.5	18.5	299	12	US-10-425-114-53486	Sequence 53486, A
42	58.5	18.5	299	12	US-10-425-114-72077	Sequence 72077, A
43	58	18.4	47	12	US-10-210-172-170	Sequence 170, App
44	58	18.4	153	12	US-10-424-599-159963	Sequence 159963, App
45	58	18.4	205	10	US-09-949-023-76	Sequence 76, Appl

#### ALIGNMENTS

RESULT 1  
US-10-079-754A-7  
; Sequence 7, Application US/10079754A  
; Publication No. US20020164625A1  
; GENERAL INFORMATION:  
; APPLICANT: Glenn, Murray R.  
; APPLICANT: Grigor, Murray R.  
; APPLICANT: Molenaar, Adrian J.  
; APPLICANT: Davis, Stephen R.  
; TITLE OF INVENTION: Compositions Isolated from Bovine Mammary Gland and Methods for Their Use  
; FILE REFERENCE: 11000.1068  
; CURRENT APPLICATION NUMBER: US/10/079,754A  
; CURRENT FILING DATE: 2002-02-19  
; PRIOR APPLICATION NUMBER: US 09/699,146  
; PRIOR FILING DATE: 2000-10-27  
; PRIOR APPLICATION NUMBER: US 60,152,701  
; PRIOR FILING DATE: 1999-10-29  
; PRIOR APPLICATION NUMBER: US 09/644,190  
; PRIOR FILING DATE: 2000-08-22  
; PRIOR APPLICATION NUMBER: US 60,150,330  
; PRIOR FILING DATE: 1999-08-23  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 7  
; LENGTH: 58  
; TYPE: PRT  
; ORGANISM: Bovine  
US-10-079-754A-7

Query Match 100.0%; Score 316; DB 13; Length 58;  
Best Local Similarity 100.0%; Pred. No. 4.8e-30; Indels 0; Gaps 0;  
Matches 58; Conservative 0; Mismatches 0;  
Qy 1 MKKIFVFMALILAMIRADSSSEKRRKRGYFQYQYQRYPLNPPAYPPF 58  
Db 1 MKKIFVFMALILAMIRADSSSEKRRKRGYFQYQYQRYPLNPPAYPPF 58

RESULT 2  
US-10-079-754A-10  
; Sequence 10, Application US/10079754A  
; Publication No. US20020164625A1  
; GENERAL INFORMATION:  
; APPLICANT: Glenn, Matthew  
; APPLICANT: Grigor, Murray R.  
; APPLICANT: Molenaar, Adrian J.  
; APPLICANT: Davis, Stephen R.  
; TITLE OF INVENTION: Compositions Isolated from Bovine  
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use  
; FILE REFERENCE: 11000.1068  
; CURRENT APPLICATION NUMBER: US/10/079,754A  
; CURRENT FILING DATE: 2002-02-19  
; PRIOR APPLICATION NUMBER: US 09/699,146  
; PRIOR FILING DATE: 2000-10-27  
; PRIOR APPLICATION NUMBER: US 60,162,701  
; PRIOR FILING DATE: 1999-10-29  
; PRIOR APPLICATION NUMBER: US 09/644,190  
; PRIOR FILING DATE: 2000-08-22  
; PRIOR APPLICATION NUMBER: US 60,150,330  
; PRIOR FILING DATE: 1999-08-23  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: FastSEQ for Windows Version 4.0  
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; TYPE: PRT  
; ORGANISM: Bovine  
US-10-079-754A-10  
  
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Best Local Similarity 100.0%; Pred. No. 4.8e-30;  
Matches 58; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 MKIFIFVFMALILAMIRADSSSEKRRKKHKGVFQOYQYQYPLNPPAYPPF 58  
Db 1 MKIFIFVFMALILAMIRADSSSEKRRKKHKGVFQOYQYQYPLNPPAYPPF 58  
  
RESULT 3  
US-10-079-754A-8  
; Sequence 8, Application US/10079754A  
; Publication No. US20020164625A1  
; GENERAL INFORMATION:  
; APPLICANT: Glenn, Matthew  
; APPLICANT: Grigor, Murray R.  
; APPLICANT: Molenaar, Adrian J.  
; APPLICANT: Davis, Stephen R.  
; TITLE OF INVENTION: Compositions Isolated from Bovine  
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use  
; FILE REFERENCE: 11000.1068  
; CURRENT APPLICATION NUMBER: US/10/079,754A  
; CURRENT FILING DATE: 2002-02-19  
; PRIOR APPLICATION NUMBER: US 09/699,146  
; PRIOR FILING DATE: 2000-10-27  
; PRIOR APPLICATION NUMBER: US 60,162,701  
; PRIOR FILING DATE: 1999-10-29  
; PRIOR APPLICATION NUMBER: US 09/644,190  
; PRIOR FILING DATE: 2000-08-22  
; PRIOR APPLICATION NUMBER: US 60,150,330  
; PRIOR FILING DATE: 1999-08-23  
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; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 8  
; LENGTH: 58  
; TYPE: PRT  
; ORGANISM: Bovine  
US-10-079-754A-8  
  
Query Match 99.7%; Score 315; DB 13; Length 58;  
Best Local Similarity 98.3%; Pred. No. 6.4e-30;  
Matches 57; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKIFIFVFMALILAMIRADSSSEKRRKKHKGVFQOYQYQYPLNPPAYPPF 58  
Db 1 MKIFIFVFMALILAMIRADSSSEKRRKKHKGVFQOYQYQYPLNPPAYPPF 58  
  
RESULT 4  
US-10-079-754A-12  
; Sequence 12, Application US/10079754A  
; Publication No. US20020164625A1  
; GENERAL INFORMATION:  
; APPLICANT: Glenn, Matthew  
; APPLICANT: Grigor, Murray R.  
; APPLICANT: Molenaar, Adrian J.  
; APPLICANT: Davis, Stephen R.  
; TITLE OF INVENTION: Compositions Isolated from Bovine  
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use  
; FILE REFERENCE: 11000.1068  
; CURRENT APPLICATION NUMBER: US/10/079,754A  
; CURRENT FILING DATE: 2002-02-19  
; PRIOR APPLICATION NUMBER: US 09/699,146  
; PRIOR FILING DATE: 2000-10-27  
; PRIOR APPLICATION NUMBER: US 60,162,701  
; PRIOR FILING DATE: 1999-10-29  
; PRIOR APPLICATION NUMBER: US 09/644,190  
; PRIOR FILING DATE: 2000-08-22  
; PRIOR APPLICATION NUMBER: US 60,150,330  
; PRIOR FILING DATE: 1999-08-23  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 12  
; LENGTH: 59  
; TYPE: PRT  
; ORGANISM: Bovine  
US-10-079-754A-12  
  
Query Match 53.8%; Score 170; DB 13; Length 59;  
Best Local Similarity 100.0%; Pred. No. 9.2e-13;  
Matches 34; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 MKIFIFVFMALILAMIRADSSSEKRRKKHKGVFQOYQYQYPLNPPAYPPF 34  
Db 1 MKIFIFVFMALILAMIRADSSSEKRRKKHKGVFQOYQYQYPLNPPAYPPF 34  
  
RESULT 5  
US-10-079-754A-9  
; Sequence 9, Application US/10079754A  
; Publication No. US20020164625A1  
; GENERAL INFORMATION:  
; APPLICANT: Glenn, Matthew  
; APPLICANT: Grigor, Murray R.  
; APPLICANT: Molenaar, Adrian J.  
; APPLICANT: Davis, Stephen R.  
; TITLE OF INVENTION: Compositions Isolated from Bovine  
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use  
; FILE REFERENCE: 11000.1068  
; CURRENT APPLICATION NUMBER: US/10/079,754A  
; CURRENT FILING DATE: 2002-02-19  
; PRIOR APPLICATION NUMBER: US 09/699,146  
; PRIOR FILING DATE: 2000-10-27  
; PRIOR APPLICATION NUMBER: US 60,162,701  
; PRIOR FILING DATE: 1999-10-29  
; PRIOR APPLICATION NUMBER: US 09/644,190  
; PRIOR FILING DATE: 2000-08-22  
; PRIOR APPLICATION NUMBER: US 60,150,330  
; PRIOR FILING DATE: 1999-08-23  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 9  
; LENGTH: 70  
; TYPE: PRT  
; ORGANISM: Bovine

## US-10-079-754A-9

Query Match 53.5%; Score 169; DB 13; Length 70;  
Best Local Similarity 97.1%; Pred. No. 1.4e-12;  
Matches 33; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKIFIFVFMALILAMIRADSSSEKRRKKKH 34  
Db 1 MKIFIFVFMALILAMIRADSSSEKRRKKKH 34

## RESULT 6

US-10-079-754A-11

Sequence 11, Application US/10079754A

Publication No. US20020164625A1

GENERAL INFORMATION:

APPLICANT: Glenn, Matthew

APPLICANT: Grigor, Murray R.

APPLICANT: Molenaar, Adrian J.

APPLICANT: Davis, Stephen R.

TITLE OF INVENTION: Compositions Isolated from Bovine

TITLE OF INVENTION: Mammary Gland and Methods for Their Use

FILE REFERENCE: 11000.1068

CURRENT APPLICATION NUMBER: US/10/079,754A

CURRENT FILING DATE: 2002-02-19

PRIOR APPLICATION NUMBER: US 09/699,146

PRIOR FILING DATE: 2000-10-27

PRIOR APPLICATION NUMBER: US 60,162,701

PRIOR FILING DATE: 1999-10-29

PRIOR APPLICATION NUMBER: US 09/644,190

PRIOR FILING DATE: 2000-08-22

PRIOR APPLICATION NUMBER: US 60,150,330

PRIOR FILING DATE: 1999-08-23

NUMBER OF SEQ ID NOS: 15

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 11

LENGTH: 21

TYPE: PRT

ORGANISM: Bovine

US-10-079-754A-11

Query Match 35.4%; Score 112; DB 13; Length 21;  
Best Local Similarity 94.7%; Pred. No. 2.2e-06;  
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 38 FQOQYQYRPLNYPAYP 56  
Db 1 FQOQYQYRPLNYPAYP 19

## RESULT 7

US-10-210-172-168

Sequence 168, Application US/10210172

Publication No. US20040043928A1

GENERAL INFORMATION:

APPLICANT: Kekuda, Ramesh

APPLICANT: Miller, Charles

APPLICANT: Patturajan, Meera

APPLICANT: Pena, Carol

APPLICANT: Rieger, Daniel

APPLICANT: Shimkets, Richard

APPLICANT: Zerhusen, Bryan

APPLICANT: Li, Li

APPLICANT: Ji, Weizhen

APPLICANT: Padigaru, Muralidhara

APPLICANT: Casman, Stacie

APPLICANT: Voss, Edward

APPLICANT: Boldog, Ferenc

APPLICANT: Gorman, Linda

APPLICANT: Leite, Mario

APPLICANT: Vernet, Corine

APPLICANT: Anderson, David

APPLICANT: Guo, Xiasjia

APPLICANT: Zhong, Mei  
APPLICANT: Gerlach, Valerie  
APPLICANT: Hjalt, Tord  
APPLICANT: Rastelli, Luca  
APPLICANT: Spyttek, Kimberly  
APPLICANT: Edinger, Shlomit  
APPLICANT: Ellemann, Karen  
APPLICANT: Malyankar, Uriel  
APPLICANT: MacDougall, John  
APPLICANT: Stone, David  
APPLICANT: Alsobrook II, John  
APPLICANT: Lepley, Denise et al.  
TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD  
FILE REFERENCE: 21402-416 A  
CURRENT APPLICATION NUMBER: US/10/210,172  
CURRENT FILING DATE: 2001-08-01  
PRIOR APPLICATION NUMBER: 60/309,501  
PRIOR FILING DATE: 2001-08-02  
PRIOR APPLICATION NUMBER: 60/323,994  
PRIOR FILING DATE: 2001-09-21  
PRIOR APPLICATION NUMBER: 60/373,814  
PRIOR FILING DATE: 2002-04-19  
PRIOR APPLICATION NUMBER: 60/310,291  
PRIOR FILING DATE: 2001-08-03  
PRIOR APPLICATION NUMBER: 60/310,951  
PRIOR FILING DATE: 2001-08-08  
PRIOR APPLICATION NUMBER: 60/310,544  
PRIOR FILING DATE: 2001-08-07  
PRIOR APPLICATION NUMBER: 60/311,292  
PRIOR FILING DATE: 2001-08-09  
PRIOR APPLICATION NUMBER: 60/311,979  
PRIOR FILING DATE: 2001-08-13  
PRIOR APPLICATION NUMBER: 60/313,201  
PRIOR FILING DATE: 2001-08-17  
PRIOR APPLICATION NUMBER: 60/312,892  
PRIOR FILING DATE: 2001-08-16  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 327  
SOFTWARE: CuraSeqList version 0.1  
SEQ ID NO 168  
LENGTH: 62  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-210-172-168

Query Match 34.8%; Score 110; DB 12; Length 62;  
Best Local Similarity 49.1%; Pred. No. 1.2e-05;  
Matches 27; Conservative 7; Mismatches 19; Indels 2; Gaps 2;

Qy 1 MKIFIFVFMALILAMIRADSSSEKRRKKKHRRGYFQOQYQYRPLNYPAY 55  
Db 1 MKFLVFAFIALMVMISMGADSSSEKFLRRIGRFGYGY-GPYQYVPEQPL-YPQPY 53

## RESULT 8

US-09-917-340-19

Sequence 19, Application US/09917340

Patent No. US20020090369A1

GENERAL INFORMATION:

APPLICANT: Murphy, Christopher J.

APPLICANT: McAnulty, Jonathan F.

APPLICANT: Reid, Ted W.

TITLE OF INVENTION: Transplant Media

FILE REFERENCE: TPLANT-06468

CURRENT APPLICATION NUMBER: US/09/917,340

CURRENT FILING DATE: 2001-07-29

PRIOR APPLICATION NUMBER: 60/221,632

PRIOR FILING DATE: 2000-07-28

PRIOR APPLICATION NUMBER: 60/249,602

PRIOR FILING DATE: 2000-11-17

PRIOR APPLICATION NUMBER: 60/290,932

PRIOR FILING DATE: 2001-05-15

NUMBER OF SEQ ID NOS: 96

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; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
; LENGTH: 51
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-917-340-19
; Gaps 2;

Query Match 30.1%; Score 95; DB 9; Length 51;
Best Local Similarity 46.8%; Pred.No. 0.00058;
Matches 22; Conservative 6; Mismatches 13; Indels 6; Gaps 2;

QY 1 MKKIFVFVFMALILAMIRADSSEKKH-RKRKKH-----HRGYFOCY 41
DB 1 MKKFFVFLALMLSMTGADSHAKRHHGYRKRKFKHEKHHSHRGYRSNY 47
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RESULT 9
US-09-924-600A-6
; Sequence 6, Application US/09992600A
; Publication No. US20030027161A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91.US4.DIV
; CURRENT APPLICATION NUMBER: US/09/992,600A
; CURRENT FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: JPatent
; SEQ ID NO 6
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: 1..19
; LOCATION: 1..19
US-09-992-600A-6

Query Match 29.9%; Score 94.5; DB 10; Length 78;
Best Local Similarity 32.7%; Pred.No. 0.0011;
Matches 18; Conservative 13; Mismatches 17; Indels 7; Gaps 1;

QY 1 MKKIFVFVFMALILAMIRADSSEKKRHKRKKHHRGYFOCYQYQRYFLNPPAY 55
DB 1 MKKFFVFLVLMISMISADSHEKRRHHGYRKRKF-----EKHSHYHTLLPLF 48
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RESULT 10
US-09-924-340-6
; Sequence 6, Application US/09924340
; Publication No. US20030027248A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91.US2.REG
; CURRENT APPLICATION NUMBER: US/09/924,340
; CURRENT FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277

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; APPLICANT: Benjanin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: G-091US08DIV
; CURRENT APPLICATION NUMBER: US/09/999,570
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 6
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: 1..19
; US-09-999-570-6

Query Match          29.9%; Score 94.5; DB 10; Length 78;
Best Local Similarity 32.7%; Pred. No. 0.0011;
Matches 18; Conservative 13; Mismatches 17; Indels 7; Gaps 1;

QY 1 MKIFIFVFMALIMIRADSEKHKRKKHGHGYFOQYQYQYPLNYPAY 55
|||:||||:||||:||||:||||:||||:||||:||||:||||:|
Db 1 MKFFVFLVLMISMISADSHKHKHGHGYRKFH-----EKHSYHITLLPLF 48

RESULT 13
US-10-000-489-6
; Sequence 6, Application US/10000489
; Publication No. US20030092011A1
; GENERAL INFORMATION:
; APPLICANT: Benjanin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91.US6.DIV
; CURRENT APPLICATION NUMBER: US/10/000,489
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 6
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: 1..19
; US-10-000-489-6

Query Match          29.9%; Score 94.5; DB 14; Length 78;
Best Local Similarity 32.7%; Pred. No. 0.0011;
Matches 18; Conservative 13; Mismatches 17; Indels 7; Gaps 1;

QY 1 MKIFIFVFMALIMIRADSEKHKRKKHGHGYFOQYQYQYPLNYPAY 55
|||:||||:||||:||||:||||:||||:||||:||||:||||:|
Db 1 MKFFVFLVLMISMISADSHKHKHGHGYRKFH-----EKHSYHITLLPLF 48

RESULT 14
US-10-000-986-6
; Sequence 6, Application US/10000986
; Publication No. US20030096247A1
; GENERAL INFORMATION:
; APPLICANT: Benjanin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91.US9.DIV
; CURRENT APPLICATION NUMBER: US/10/000,986
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 6
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: 1..19
; US-10-000-986-6

Query Match          29.9%; Score 94.5; DB 14; Length 78;
Best Local Similarity 32.7%; Pred. No. 0.0011;
Matches 18; Conservative 13; Mismatches 17; Indels 7; Gaps 1;

QY 1 MKIFIFVFMALIMIRADSEKHKRKKHGHGYFOQYQYQYPLNYPAY 55
|||:||||:||||:||||:||||:||||:||||:||||:||||:|
Db 1 MKFFVFLVLMISMISADSHKHKHGHGYRKFH-----EKHSYHITLLPLF 48

RESULT 15
US-10-154-678-6
; Sequence 6, Application US/10154678
; Publication No. US20030162186A1
; GENERAL INFORMATION:
; APPLICANT: Benjanin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 182.US1.REG
; CURRENT APPLICATION NUMBER: US/10/154,678
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
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C 1	69.5	22.0	2581	4	US-09-370-838-66	Sequence 66, Appl
C 2	69.5	22.0	3164	4	US-09-023-653-816	Sequence 816, Appl
C 3	66	20.9	4403765	3	US-09-103-840A-2	Sequence 2, Appl
C 4	66	20.9	4411529	3	US-09-103-840A-1	Sequence 1, Appl
C 5	66	20.6	2335	3	US-09-387-574-9	Sequence 9, Appl
C 6	65	20.6	2335	4	US-09-668-095-9	Sequence 9, Appl
C 7	64	20.3	4379	1	US-08-592-214A-17	Sequence 17, Appl
C 8	64	20.3	4379	3	US-09-149-578-17	Sequence 17, Appl
C 9	63.5	20.1	4403765	3	US-09-103-840A-2	Sequence 2, Appl
C 10	63.5	20.1	4411529	3	US-09-103-840A-1	Sequence 1, Appl
C 11	63	19.9	426	4	US-09-328-352-3819	Sequence 3819, Ap
C 12	63	19.9	450	4	US-09-359-301A-30	Sequence 30, Appl

3 IlePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaAsp-SerSe 22

Db 2326 GTCTGTCATCTCTTCTATCTCATCCCATCTGCTCTGCTCTGCTGCTGACTC 2267  
Qy 22 rGlUglU-LysArgHisArgLysArgLysLysHis--HisArgGlyTyrPheGlnGlnT 41  
Db 2266 AGAGGAGTCCGCCCATCTTCAGAGGAGTCCCATCTCTCATCTCTCTTCTTCATC 2207  
Qy 41 yGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyrPro 56  
Db 2206 CTGCTGCTGTCATCTCTCTCTTCTCATCTCTCTCTCGGACTCCG 2160  
RESULT 2  
US-09-023-655-816/c  
; Sequence 816, Application US/09023655  
; Patent No. 6607879  
; GENERAL INFORMATION:  
; APPLICANT: COCKS, Benjamin G.  
; APPLICANT: Susan G. Stuart  
; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE  
; TITLE OF INVENTION: EXPRESSION  
; NUMBER OF SEQUENCES: 1508  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/023,655  
; FILING DATE: HERewith  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Zeller, Karen J.  
; REGISTRATION NUMBER: 37,071  
; REFERENCE/DOCKET NUMBER: PA-0001 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 855-0555  
; TELEFAX: (650) 845-4166  
; INFORMATION FOR SEQ ID NO: 816:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3164 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: MYOMOT01  
; CLONE: 781552  
; US-09-023-655-816  
Alignment Scores:  
Pred. No.: 8.79 Length: 3164  
Score: 69.50 Matches: 20  
Percent Similarity: 56.14% Conservative: 12  
Best Local Similarity: 35.09% Mismatches: 22  
Query Match: 21.99% Indels: 3  
DB: 4 Gaps: 1  
US-10-079-754A-10 (1-58) x US-09-023-655-816 (1-3164)  
Qy 3 IlePheIlePheValPheIleMetAlaLeuIleValMetIleAlaGlnasp-SerSe 22  
Db 1224 GTCTGTCATCTCTTCTATCTCATCCCATCTGCTCTGCTCTGCTGACTC 1165

Qy 22 rGlUglU-LysArgHisArgLysArgLysLysHis--HisArgGlyTyrPheGlnGlnT 41  
Db 1164 AGAGGAGTCCGCCCATCTTCAGAGGAGTCCCATCTCTCATCTCTCTTCTTCATC 1105  
Qy 41 yGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyrPro 56  
Db 1104 CTGCTGCTGTCATCTCTCTCTTCTCATCTCTCTCTCGGACTCCG 1058  
RESULT 3  
US-09-103-840A-2  
; Sequence 2, Application US/09103840A  
; Patent No. 6294328  
; GENERAL INFORMATION:  
; APPLICANT: FLEISCHMAN, Robert D.  
; APPLICANT: WHITE, Owen R.  
; APPLICANT: FRASER, Claire M.  
; APPLICANT: VENTER, John C.  
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM  
; TITLE OF INVENTION: TUBERCULOSIS  
; FILE REFERENCE: 24366-20007.00  
; CURRENT APPLICATION NUMBER: US/09/103,840A  
; CURRENT FILING DATE: 1998-06-24  
; NUMBER OF SEQ ID NOS: 2  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 4403765  
; TYPE: DNA  
; ORGANISM: Mycobacterium tuberculosis  
; FEATURE:  
; OTHER INFORMATION: CDC 1551  
; OTHER INFORMATION: "n" bases at various positions throughout the sequence  
; OTHER INFORMATION: represent a, t, c or g  
US-09-103-840A-2  
Alignment Scores:  
Pred. No.: 5.06e+05 Length: 4403765  
Score: 66.00 Matches: 10  
Percent Similarity: 58.06% Conservative: 8  
Best Local Similarity: 32.26% Mismatches: 13  
Query Match: 20.89% Indels: 0  
DB: 3 Gaps: 0  
US-10-079-754A-10 (1-58) x US-09-103-840A-2 (1-4403765)  
Qy 18 ArgAlaaspSerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyr 37  
Db 1189176 CGTTGCCATACAGAGCCACCACCCAGCCGCGCGCGCGCGCGCGCGCG 1189235  
Qy 38 PheGlnGlnTyrGlnProTyrGlnArgTyrPro 48  
Db 1189236 CACCACCCGTACACACCTTACCGCGGTGGCCA 1189268  
RESULT 4  
US-09-103-840A-1  
; Sequence 1, Application US/09103840A  
; Patent No. 6294328  
; GENERAL INFORMATION:  
; APPLICANT: FLEISCHMAN, Robert D.  
; APPLICANT: WHITE, Owen R.  
; APPLICANT: FRASER, Claire M.  
; APPLICANT: VENTER, John C.  
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM  
; TITLE OF INVENTION: TUBERCULOSIS  
; FILE REFERENCE: 24366-20007.00  
; CURRENT APPLICATION NUMBER: US/09/103,840A  
; CURRENT FILING DATE: 1998-06-24  
; NUMBER OF SEQ ID NOS: 2  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 4411529  
; TYPE: DNA  
; ORGANISM: Mycobacterium tuberculosis  
; OTHER INFORMATION: H37Rv

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US-09-103-840A-1

Alignment Scores:
Pred. No.:          5.07e+05          4411529
Score:              66.00             10
Percent Similarity: 58.06%             8
Best Local Similarity: 32.26%          13
Query Match:       20.89%              0
DB:                3                  0

US-10-079-754A-10 (1-58) x US-09-103-840A-1 (1-4411529)
Qy  18 ArgAlaAspSerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyr 37
Db  1189150 CGTGTGCATACAGCAGCCACCGCCACCAACCGGCGCGCGCGCGCGCGCG 1189209

Qy  38 PheGlnGlnTyrGlnProTyrGlnArgTyrPro 48
Db  1189210 CACCACCGTACCACCCCTTACCGCGGTGCCA 1189242

RESULT 5
US-09-387-574-9
; Sequence 9, Application US/09387574
; Patent No. 6168951
; GENERAL INFORMATION:
; APPLICANT: Cahoon, Rebecca E.
; APPLICANT: Kinney, Tony
; APPLICANT: Rafelski, Antoni
; TITLE OF INVENTION: Plant Geranylgeranyl Transferases
; FILE REFERENCE: BB-1239
; CURRENT APPLICATION NUMBER: US/09/387,574
; CURRENT FILING DATE: 1999-08-31
; EARLIER APPLICATION NUMBER: 60/098,743
; EARLIER FILING DATE: September 1, 1998
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 9
; LENGTH: 2335
; TYPE: DNA
; ORGANISM: Oryza sativa
US-09-387-574-9

Alignment Scores:
Pred. NO.:          24.7              2335
Score:              65.00             21
Percent Similarity: 34.15%             7
Best Local Similarity: 25.61%          20
Query Match:       20.57%              34
DB:                3                  3

US-10-079-754A-10 (1-58) x US-09-387-574-9 (1-2335)
Qy  10 MetAlaLeuIleLeuAlaMetIleArgAlaAspSerSerGluGluLysArgHisArgLys 29
Db  114 TTACGACTGATCCGAGCGGCTTTTCGGCGCATCATGGCGACGCGCCGCCACCGCGG 173

Qy  30 Arg-----LysLysHisArgGlyTyrPhe----- 38
Db  174 CGGATTCCTCCGCGCAGGACTACCCACCATCGACCCACCTCGTTCGACGTGGTCTCTG 233

Qy  38 ----- 38
Db  234 CGGCACGGCTCCGGGAGTCGCTCTCGCGCGCTCGCGCGCGCGGAGACGGT 293

Qy  39 -----GlnGlnTyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyrPro 56
Db  294 CTTCCACGTCGACCCCAACCCCTTTCTACGGGTCCCTCTCTCTCTCTCTCTCTCTCTCT 350

Qy  57 PhePro 58
Db  351 TTCCT 356

RESULT 6

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; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/592,214A
; FILING DATE: 26-JAN-1996
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-UD 1927
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4379 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: unsure
; LOCATION: 2095..2098
; OTHER INFORMATION: /note= "N = one or more
; OTHER INFORMATION: thaliana Ap1 gene"
;
; US-08-592-214A-17
;
; Alignment Scores:
; Pred. No.: 81.6 Length: 4379
; Score: 64.00 Matches: 19
; Percent Similarity: 55.74% Conservative: 15
; Best Local Similarity: 31.15% Mismatches: 20
; Query Match: 20.25% Indels: 8
; DB: 2 Gaps: 2
;
; US-10-079-754A-10 (1-58) x US-08-592-214A-17 (1-4379)
;
; QY 1 MetLysllePheIlePheValPheIleMetAlaLeuIleLeuAlaMet----- 16
; Db 1473 ATCAATGTTTATTTTTCATATTTTAAAG-TCCGCAGTTTATTTAAATAATCATGGACCC 1531
;
; QY 17 ---tleAArgAlaApsSerSerGluGluLysArgHisArgLysLysHisHisArg 35
; Db 1532 GACATTAGTACGAGATATACCAATGAGAAGTCGACACGCAATTCCTAAGAACCCACTGT 1591
;
; QY 36 GlyTyrPheGlnGlnTyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyr 55
; Db 1592 GGTTTTTCACAAACAGAGAACCCAGCTTTAGCTTTTCCTTAAACACCAC-----TCTTAC 1645
;
; QY 56 Pro 56
; Db 1646 CCA 1648
;
; RESULT 8
; US-09-149-976-17
; Sequence 17, Application US/09149976
; Patent No. 6127123
; GENERAL INFORMATION:
; APPLICANT: Yanofsky, Martin F.
; TITLE OF INVENTION: Cauliflower Floral Meristem Identity
; TITLE OF INVENTION: Genes and Methods of Using Same
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: United States
; ZIP: 92122
; COMPUTER READABLE FORM:
;
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/149,976
; FILING DATE: 09-SEP-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/592,214
; FILING DATE: 26-JAN-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-UD 3291
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4379 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: unsure
; LOCATION: 2095..2098
; OTHER INFORMATION: /note= "N = one or more
; OTHER INFORMATION: thaliana Ap1 gene"
;
; US-09-149-976-17
;
; Alignment Scores:
; Pred. No.: 81.6 Length: 4379
; Score: 64.00 Matches: 19
; Percent Similarity: 55.74% Conservative: 15
; Best Local Similarity: 31.15% Mismatches: 20
; Query Match: 20.25% Indels: 8
; DB: 2 Gaps: 2
;
; US-10-079-754A-10 (1-58) x US-09-149-976-17 (1-4379)
;
; QY 1 MetLysllePheIlePheValPheIleMetAlaLeuIleLeuAlaMet----- 16
; Db 1473 ATCAATGTTTATTTTTCATATTTTAAAG-TCCGCAGTTTATTTAAATAATCATGGACCC 1531
;
; QY 17 ---tleAArgAlaApsSerSerGluGluLysArgHisArgLysLysHisHisArg 35
; Db 1532 GACATTAGTACGAGATATACCAATGAGAAGTCGACACGCAATTCCTAAGAACCCACTGT 1591
;
; QY 36 GlyTyrPheGlnGlnTyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyr 55
; Db 1592 GGTTTTTCACAAACAGAGAACCCAGCTTTAGCTTTTCCTTAAACACCAC-----TCTTAC 1645
;
; QY 56 Pro 56
; Db 1646 CCA 1648
;
; RESULT 9
; US-09-103-840A-2/c
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TUBERCULOSIS
;

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FILE REFERENCE: 24366-20007.00  
CURRENT APPLICATION NUMBER: US/09/103,840A  
CURRENT FILING DATE: 1998-06-24  
NUMBER OF SEQ ID NOS: 2  
SOFTWARE: Patent in Ver. 2.1  
SEQ ID NO 2  
LENGTH: 4403765  
TYPE: DNA  
ORGANISM: Mycobacterium tuberculosis  
FEATURE:  
OTHER INFORMATION: CDC 1551  
OTHER INFORMATION: "n" bases at various positions throughout the sequence  
OTHER INFORMATION: represent a, t, c or g  
US-09-103-840A-2

Alignment Scores:  
Pred. No.: 8.8e+05 Length: 4403765  
Score: 63.50 Matches: 17  
Percent Similarity: 55.32% Conservative: 9  
Best Local Similarity: 36.17% Mismatches: 15  
Query Match: 20.09% Indels: 7  
DB: 3 Gaps: 1

US-10-079-754A-10 (1-58) x US-09-103-840A-2 (1-4403765)

QY 18 ArgAlaAspSerGluGlnLysArgHisArgLysArgLysLysHisArgGlyTyr 37  
Db 3771788 CGTCCCGTTCGTGCGGTACCGCGGCACCGCGGTGCGCGGTACCGCGGCACCGAAC 3771729  
QY 38 PheGlnGlnTyrGlnProTyrGlnArgTyrPro-----LeuAsnTyr 51  
Db 3771728 TACCGCGGACGGCGCTCCCGCGGCG-CGCGCGGCACCGCATTCGCGCGCGTCA 3771670  
QY 52 ProProAlaTyrProPhePro 58  
Db 3771669 CGCGCGGCGCGCGTCCCG 3771649

RESULT 10  
US-09-103-840A-1/c  
Sequence 1, Application US/09103840A  
Patent No. 6294328  
GENERAL INFORMATION:  
APPLICANT: WHITE, Owen R.  
APPLICANT: FLEISCHMAN, Robert D.  
APPLICANT: FRASER, Claire M.  
APPLICANT: VENTER, John C.  
TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM  
FILE REFERENCE: 24366-20007.00  
CURRENT APPLICATION NUMBER: US/09/103,840A  
CURRENT FILING DATE: 1998-06-24  
NUMBER OF SEQ ID NOS: 2  
SOFTWARE: Patent in Ver. 2.1  
SEQ ID NO 1  
LENGTH: 4411529  
TYPE: DNA  
ORGANISM: Mycobacterium tuberculosis  
OTHER INFORMATION: H37Rv  
US-09-103-840A-1

Alignment Scores:  
Pred. No.: 8.81e+05 Length: 4411529  
Score: 63.50 Matches: 17  
Percent Similarity: 55.32% Conservative: 9  
Best Local Similarity: 36.17% Mismatches: 15  
Query Match: 20.09% Indels: 7  
DB: 3 Gaps: 1

US-10-079-754A-10 (1-58) x US-09-103-840A-1 (1-4411529)

QY 18 ArgAlaAspSerGluGlnLysArgHisArgLysArgLysLysHisArgGlyTyr 37  
Db 3779614 CGTCCCGTTCGTGCGGTACCGCGGCACCGCGGTGCGCGGTACCGCGGCACCGAAC 3779555

QY 38 PheGlnGlnTyrGlnProTyrGlnArgTyrPro-----LeuAsnTyr 51  
Db 3779554 TACCGCGGACGGCGCTGCCCGCGCG-CGCGCGGCACCGCATTCGCGCGGTCA 3779496  
QY 52 ProProAlaTyrProPhePro 58  
Db 3779495 CGCGCGGCGCGCGTCCCG 3779475

#### RESULT 11

US-09-328-352-3819/c  
Sequence 3819, Application US/09328352  
Patent No. 6562958  
GENERAL INFORMATION:

APPLICANT: Gary L. Breton et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
FILE REFERENCE: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: GTC99-03PA  
CURRENT APPLICATION NUMBER: US/09/328,352  
CURRENT FILING DATE: 1999-06-04  
NUMBER OF SEQ ID NOS: 8252  
SEQ ID NO 3819  
LENGTH: 426  
TYPE: DNA  
ORGANISM: Acinetobacter baumannii  
US-09-328-352-3819

Alignment Scores:  
Pred. No.: 4.43 Length: 426  
Score: 63.00 Matches: 14  
Percent Similarity: 51.92% Conservative: 13  
Best Local Similarity: 26.92% Mismatches: 18  
Query Match: 19.94% Indels: 7  
DB: 4 Gaps: 1

US-10-079-754A-10 (1-58) x US-09-328-352-3819 (1-426)

QY 4 PheIlePheValPheIleMetAlaLeu-IleLeuAlaMetIleArgAlaAspSerSerg1 23  
Db 254 TTCTTAAGCGTATTCTTCTGCTGATTTAATTGCTCTTAATGCTGATAATCTTA 195  
QY 23 uGluLysArgHisArgLysArg-----LysLysHisHisArgGlyTyr 37  
Db 194 TTCAGGTCTGCATCAGCACTCGCATAGATTTTATTGTCAGTAAATATCATCAAGTA 135  
QY 37 rPheGlnGlnTyrGlnProTyrGlnArgTyrPro 48  
Db 134 TTAGGACACTATCACAGTTATCAGATAGACCG 101

#### RESULT 12

US-09-359-301A-30  
Sequence 30, Application US/09359301A  
Patent No. 6426185  
GENERAL INFORMATION:

APPLICANT: Kumagai, Monto H.  
APPLICANT: della-Cioppa, Guy R.  
APPLICANT: Erwin, Robert L.  
APPLICANT: McGee, David R.  
TITLE OF INVENTION: METHOD OF DETERMINING THE PRESENCE OF A  
TITLE OF INVENTION: TRAIT IN A PLANT BY TRANSPLECTING A NUCLEIC ACID SEQUENCE OF  
TITLE OF INVENTION: A DONOR PLANT INTO A DIFFERENT HOST PLANT IN AN ANTI-SENSE  
FILE REFERENCE: 008010137US04  
CURRENT APPLICATION NUMBER: US/09/359,301A  
CURRENT FILING DATE: 1999-07-21  
NUMBER OF SEQ ID NOS: 42  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 30  
LENGTH: 750  
TYPE: DNA  
ORGANISM: Arabidopsis thaliana  
US-09-359-301A-30

```

Alignment Scores:
Pred. No.: 9.72 Length: 750
Score: 63.00 Matches: 13
Percent Similarity: 58.33% Conservative: 1
Best Local Similarity: 54.17% Mismatches: 10
Query Match: 19.94% Indels: 0
DB: 4 Gaps: 0

US-10-079-754A-10 (1-58) x US-09-359-301A-30 (1-750)

Qy 35 ArgGlyTyrPheGlnTyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAla 54
Db 199 CAGGATATCTCTCAACAAGGTATCTCTCAGCAAGGATATCTCTCCACCGTACGGCGCTCAA 258

Qy 55 TyrProPhePro 58
Db 259 TATCTCCACCA 270

RESULT 13
US-08-308-883-1
; Sequence 1, Application US/08308883
; Patent No. 5576300
; GENERAL INFORMATION:
; APPLICANT: Mukerji, P. A.
; APPLICANT: Prieto, P. A.
; APPLICANT: Seo, A. E.-Y.
; APPLICANT: Baxter, J. H.
; APPLICANT: Cummings, R.D.
; TITLE OF INVENTION: Method for Inhibition of Human Rotavirus Infection.
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lonnie R. Drayer
; ADDRESSEE: ROSS Products Division
; ADDRESSEE: Abbott Laboratories
; STREET: 625 Cleveland Avenue
; CITY: Columbus
; STATE: Ohio
; COUNTRY: United States
; ZIP: 43215
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb storage
; COMPUTER: Apple Macintosh
; OPERATING SYSTEM: Macintosh System 7.1
; SOFTWARE: ClarisWorks 1.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/308,883
; FILING DATE: 16-SEP-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: No. 5576300 applicable
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (614) 624-3774
; TELEFAX: (614) 624-3074
; TELEX: No. 5576300e
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 857 base pairs
; TYPE: Nucleic acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: cDNA
; DESCRIPTION: Human milk kappa-casein
; HYPOTHETICAL: No
; ANTI-SENSE:
; FRAGMENT TYPE: Human
; ORGANISM: Homo sapiens
; STRAIN:
; INDIVIDUAL ISOLATE:
; DEVELOPMENTAL STAGE: Adult
; HAPLOTYPE:
; TISSUE TYPE: Mammary gland
; CELL TYPE:
; CELL LINE:

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; ORGANELLE:
; IMMEDIATE SOURCE: Human Mammary Gland
; LIBRARY:
; CLONE:
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT:
; MAP POSITION:
; UNITS:
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 45...593
; IDENTIFICATION METHOD: DNA sequencing and restriction analysis
; OTHER INFORMATION: The encoded product of nucleotide SEQ ID NO: 1: is the hum
; PUBLICATION INFORMATION:
; AUTHORS: L. Hansson et al
; TITLE: DNA Encoding Kappa-Casein, Process for Obtaining the Protein and Use T
; JOURNAL:
; VOLUME:
; ISSUE:
; PAGES:
; DATE:
; DOCUMENT NUMBER: PCT/WO93/15196
; FILING DATE: 25-JAN-1993
; PUBLICATION DATE: 05-AUG-1993
; RELEVANT RESIDUES IN SEQ ID NO:
US-08-308-883-1
Alignment Scores:
Pred. No.: 11.7 Length: 857
Score: 63.00 Matches: 17
Percent Similarity: 50.85% Conservative: 13
Best Local Similarity: 28.81% Mismatches: 25
Query Match: 19.94% Indels: 4
DB: 1 Gaps: 3

US-10-079-754A-10 (1-58) x US-08-308-883-1 (1-857)

Qy 1 MetLysIlePheIlePheValPhe---IleMetAlaLeuIleLeuAlaMetIleArgAla 19
Db 45 ATGAAGAGATTTCCTCTAGTGTGCAATGCGCTGCAATTAACCCGCTCTTTTGGCTGTG 104

Qy 20 AspSerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGln 39
Db 105 GAGGTTCAAAACACAGAACACACAGCATGCCATGAGATGATGAAGACCATTCATCAG 164

Qy 40 GlnTyrGlnProTyrGlnArgTyrProLeuAsnTyr---ProProAlaTyrProPhe 57
Db 165 AAAACAGCTCCATAT-----GTCCCAATGATTATGTGCCAAATAGCTATCCTTAT 215

RESULT 14
US-08-730-163-1
; Sequence 1, Application US/08730163
; Patent No. 5712250
; GENERAL INFORMATION:
; APPLICANT: Mukerji, P. A.
; APPLICANT: Prieto, P. A.
; APPLICANT: Seo, A. E.-Y.
; APPLICANT: Baxter, J. H.
; APPLICANT: Cummings, R.D.
; TITLE OF INVENTION: Product for Inhibition of Human Rotavirus Infection.
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lonnie R. Drayer
; ADDRESSEE: ROSS Products Division
; ADDRESSEE: Abbott Laboratories
; STREET: 625 Cleveland Avenue
; CITY: Columbus
; STATE: Ohio
; COUNTRY: United States
; ZIP: 43215
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb storage (B)COMPUTER: Apple Macintosh
; OPERATING SYSTEM: Macintosh System 7.1(D)SOFTWARE: ClarisWorks 1.0

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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/730,163
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/308,882
FILING DATE: 16-SEP-1994
TELECOMMUNICATION INFORMATION:
TELEPHONE: (614) 624-3774
TELEFAX: (614) 624-3074
TELEX: NO. 5712250e
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 857 base pairs
TYPE: Nucleic acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: cDNA
DESCRIPTION: Human milk kappa-casein
HYPOTHETICAL: No
ANTI-SENSE:
FRAGMENT TYPE:
ORIGINAL SOURCE: Human
ORGANISM: Homo sapiens
STRAIN:
INDIVIDUAL ISOLATE:
DEVELOPMENTAL STAGE: Adult
HAPOTYPE:
TISSUE TYPE: Mammary gland
CELL TYPE:
CELL LINE:
ORGANELLE:
IMMEDIATE SOURCE: Human Mammary Gland
CLONE:
POSITION IN GENOME:
CHROMOSOME/SEGMENT:
MAP POSITION:
UNITS:
FEATURE:
NAME/KEY: CDS
LOCATION: 45..593
IDENTIFICATION METHOD: DNA sequencing and restriction analysis
OTHER INFORMATION: The encoded product of nucleotide SEQ ID NO: 1: is the human
PUBLICATION INFORMATION:
AUTHORS: L. Hansson et al
TITLE: DNA Encoding Kappa-Casein, Process for Obtaining the Protein and Use The
JOURNAL:
VOLUME:
ISSUE:
PAGES:
DATE:
DOCUMENT NUMBER: PCT/WO93/15196
FILING DATE: 25-JAN-1993
PUBLICATION DATE: 05-AUG-1993
RELEVANT RESIDUES IN SEQ ID NO:
US-08-730-163-1

Alignment Scores:
Pred. No.: 11.7 Length: 857
Score: 63.00 Matches: 17
Percent Similarity: 50.85% Conservative: 13
Best Local Similarity: 28.81% Mismatches: 25
Query Match: 19.94% Indels: 4
DB: 1 Gaps: 3

US-10-079-754A-10 (1-58) x US-08-730-163-1 (1-857)

QY 1 MetLyslePhelePheValPhe---lleMetAlaLeulleuAlaMetIleArgAla 19
Db 45 ATGAAGAGTTTCTTCTAGTTGTCAATGGCCGTGCAATACCCCTGCTTTTGGCTGG 104
QY 20 ApsSerSerGluGluLysArgHisAArgLysAArgLysLysHisAArgGlyTyrPheGln 39

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Alignment Scores:  
 Pred. No.: 11.7 Length: 857  
 Score: 63.00 Matches: 17  
 Percent Similarity: 50.8% Conservative: 13  
 Best Local Similarity: 28.8% Mismatches: 25  
 Query Match: 19.9% Indels: 4  
 DB: 3 Gaps: 3

US-10-079-754A-10 (1-58) x US-08-256-799-1 (1-857)

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QY      1 MetLysIlePheIlePheValPhe--IleMetAlaLeuAlaMetIleArgAla 19
DB      45 ATGAGAGTTTCTTCTAGTTGTCAATGCCCTGGCATTAAACCTGCTTTTGGCTGTG 104

QY      20 AspSerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGln 39
DB      105 GAGGTTCAAAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCA 164

QY      40 GlnTyrGlnProTyrGlnArgTyrProLeuAsnTyr---ProProAlaTyrProPhe 57
DB      165 AAAACAGCTCCATAT-----GTCCCAATGATTATGTGCCCAATAGCTATCCTTAT 215
  
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Search completed: April 20, 2004, 05:14:37  
 Job time : 1538 secs

1	316	100.0	267	14	US-10-079-754A-15	Sequence 15, Appl
2	316	100.0	267	14	US-10-079-623-200	Sequence 200, App
3	316	100.0	505	14	US-10-079-754A-1	Sequence 1, Appl
4	316	100.0	604	14	US-10-079-754A-4	Sequence 4, Appl
5	315	99.7	585	14	US-10-079-754A-2	Sequence 2, Appl
6	277	87.7	525	14	US-10-079-754A-6	Sequence 6, Appl
7	170.5	54.0	869	14	US-10-079-754A-3	Sequence 3, Appl
8	112	35.4	96	14	US-10-079-754A-5	Sequence 5, Appl
9	110	34.8	678	13	US-10-210-172-167	Sequence 167, App
10	110	34.8	1584	16	US-10-104-047-1193	Sequence 1193, App
11	94.5	29.9	438	10	US-09-992-600A-5	Sequence 5, Appl
12	94.5	29.9	438	10	US-09-924-340-5	Sequence 5, Appl
13	94.5	29.9	438	10	US-09-992-095B-5	Sequence 5, Appl
14	94.5	29.9	438	10	US-09-999-570-5	Sequence 5, Appl
15	94.5	29.9	438	15	US-10-000-489-5	Sequence 5, Appl
16	94.5	29.9	438	15	US-10-000-986-5	Sequence 5, Appl
17	94.5	29.9	438	15	US-10-154-678-5	Sequence 5, Appl
18	94.5	29.9	438	15	US-10-001-142-5	Sequence 5, Appl
19	78.5	24.8	2223	15	US-10-128-714-1032	Sequence 1032, App
20	78.5	24.8	2223	15	US-10-128-714-2032	Sequence 2032, App
21	78.5	24.8	2223	15	US-10-128-714-6032	Sequence 6032, App
22	78.5	24.8	2223	15	US-10-128-714-7032	Sequence 7032, App
23	78.5	24.8	4223	15	US-10-128-714-32	Sequence 32, Appl
24	78.5	24.8	4223	15	US-10-128-714-5032	Sequence 5032, App
25	71.5	22.6	353	16	US-10-260-238-4986	Sequence 4986, App
26	69.5	22.0	449	10	US-09-918-995-20169	Sequence 20169, A
27	69.5	22.0	517	9	US-09-920-300A-313	Sequence 313, App
28	69.5	22.0	517	14	US-10-033-528-313	Sequence 313, App
29	69.5	22.0	517	15	US-10-099-928-313	Sequence 313, App
30	69.5	22.0	2581	9	US-09-738-973-66	Sequence 66, Appl
31	69.5	22.0	2581	9	US-09-854-133-66	Sequence 66, Appl
32	69.5	22.0	2581	15	US-10-144-649A-66	Sequence 35577, A
33	69	21.8	687	13	US-10-282-122A-35577	Sequence 125, App
34	67.5	21.4	5307	17	US-10-257-165-135	Sequence 2, Appl
35	67.5	21.4	3673778	15	US-10-313-841-2	Sequence 5849, App
36	67	21.2	370	13	US-10-424-595-5849	Sequence 116142, A
37	67	21.2	612	13	US-10-027-632-116142	Sequence 116142, A
38	67	21.2	612	16	US-10-027-632-116142	Sequence 24551, A
39	67	21.2	837	16	US-10-369-493-24551	Sequence 36651, A
40	66.5	21.0	1109	13	US-10-282-122A-36651	Sequence 11, Appl
41	66.5	21.0	5310	15	US-10-172-086-11	Sequence 28310, A
42	66	20.9	2004	13	US-10-282-122A-28310	Sequence 22947, A
43	65.5	20.7	3327	13	US-10-282-122A-22947	Sequence 245, App
44	65.5	20.7	5239	15	US-10-311-455-245	Sequence 3682, App
45	65.5	20.7	5832	16	US-10-398-221-3682	

ALIGNMENTS

RESULT 1  
US-10-079-754A-15  
; Sequence 15, Application US/10079754A  
; Publication No. US2002016425A1  
; GENERAL INFORMATION:  
; APPLICANT: Glenn, Matthew  
; APPLICANT: Grigor, Murray R.  
; APPLICANT: Molenaar, Adrian J.  
; APPLICANT: Davis, Stephen R.  
; TITLE OF INVENTION: Compositions Isolated from Bovine Mammary Gland and Methods for Their Use  
; FILE REFERENCE: 11000.1068  
; CURRENT APPLICATION NUMBER: US/10/079,754A  
; CURRENT FILING DATE: 2002-02-19  
; PRIOR APPLICATION NUMBER: US 09/699,146  
; PRIOR FILING DATE: 2000-10-27  
; PRIOR APPLICATION NUMBER: US 60,162,701  
; PRIOR FILING DATE: 1999-10-29  
; PRIOR APPLICATION NUMBER: US 09/644,190  
; PRIOR FILING DATE: 2000-08-22  
; PRIOR APPLICATION NUMBER: US 60,150,330  
; PRIOR FILING DATE: 1999-08-23  
; NUMBER OF SEQ ID NOS: 15

OM protein - nucleic search, using frame\_plus\_p2n model  
Run on: April 20, 2004, 04:46:40 ; Search time 330 Seconds  
(without alignments)  
786.441 Million cell updates/sec

Title: US-10-079-754A-10  
Perfect score: 316  
Sequence: 1 MKRIFVFMALILAMIRAD.....QQYQYQRYPLNYPAYPPF 58

Scoring table:  
BLOSUM62  
Xgapop 10.0, Xgapext 0.5  
Ygapop 10.0, Ygapext 0.5  
Fgapop 6.0, Fgapext 7.0  
Delop 6.0, Delext 7.0

Searched: 2890132 seqs, 2237290429 residues

Total number of hits satisfying chosen parameters: 5780264

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Command line parameters:  
-MODE=frame+ p2n.model -DEV=xlp  
-Q=USPTO.spool\_p/US10079754/runat\_19042004\_135023\_23259/app\_query.fasta\_1.199  
-DB=Published Applications NA -QMT=fastap -SUFFIX=rnpb -MINMATCH=0.1  
-LOOPEL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62  
-TRANS=human40.cai -LIST=45 -DOALIGN=200 -THR SCORE=pct -THR MAX=100  
-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0  
-MAXLEN=200000000 -USPR=US10079754 @CGN 1 1 333 @runat\_19042004\_135023\_23259  
-NCPU=6 -ICPU=3 -NO MAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100  
-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5  
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Published Applications NA:  
1: /cgn2\_6/prodata/1/pubpna/US07\_PUBCOMB.seq:  
2: /cgn2\_6/prodata/1/pubpna/BCT\_NEW\_PUB.seq:  
3: /cgn2\_6/prodata/1/pubpna/US06\_NEW\_PUB.seq:  
4: /cgn2\_6/prodata/1/pubpna/US06\_PUBCOMB.seq:  
5: /cgn2\_6/prodata/1/pubpna/US07\_NEW\_PUB.seq:  
6: /cgn2\_6/prodata/1/pubpna/FCUS\_PUBCOMB.seq:  
7: /cgn2\_6/prodata/1/pubpna/US08\_NEW\_PUB.seq:  
8: /cgn2\_6/prodata/1/pubpna/US08\_PUBCOMB.seq:  
9: /cgn2\_6/prodata/1/pubpna/US09A\_PUBCOMB.seq:  
10: /cgn2\_6/prodata/1/pubpna/US09B\_PUBCOMB.seq:  
11: /cgn2\_6/prodata/1/pubpna/US09C\_PUBCOMB.seq:  
12: /cgn2\_6/prodata/1/pubpna/US09\_NEW\_PUB.seq:  
13: /cgn2\_6/prodata/1/pubpna/US09A\_PUBCOMB.seq:  
14: /cgn2\_6/prodata/1/pubpna/US10A\_PUBCOMB.seq:  
15: /cgn2\_6/prodata/1/pubpna/US10B\_PUBCOMB.seq:  
16: /cgn2\_6/prodata/1/pubpna/US10C\_PUBCOMB.seq:  
17: /cgn2\_6/prodata/1/pubpna/US10\_NEW\_PUB.seq:  
18: /cgn2\_6/prodata/1/pubpna/US60\_NEW\_PUB.seq:  
19: /cgn2\_6/prodata/1/pubpna/US60\_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 267
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-15

Alignment Scores:
Pred. No.: 6,31e-37 Length: 267
Score: 316.00 Matches: 58
Percent Similarity: 100.00% Conservatative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-754A-15 (1-267)
QY 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaAsp 20
DB 44 ATGAAGATCTTTATCTTTGCTCTCATTCATTCCTAGCCATGATTAGAGCTGAT 103
QY 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
DB 104 TCATCTGAAGAGAAACGTCACAGGAAACGGAAAAACATCATAGAGGATATTTTCAACA 163
QY 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProAlaTyrProPhePro 58
DB 164 TACCAGCCATATCAACGATATCCACTAAATATCTCTCGGTATCCATTTCCT 217

RESULT 2
US-10-079-623-200
; Sequence 200, Application US/10079623
; Publication No. US20020169302A1
; GENERAL INFORMATION:
; APPLICANT: Havukkala, Ilkka J.
; APPLICANT: Glenn, Matthew R.
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; TITLE OF INVENTION: Compositions isolated from bovine
; FILE REFERENCE: 11000.10463
; CURRENT APPLICATION NUMBER: US/10/079,623
; CURRENT FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 370
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 200
; LENGTH: 267
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-623-200

Alignment Scores:
Pred. No.: 6,31e-37 Length: 267
Score: 316.00 Matches: 58
Percent Similarity: 100.00% Conservatative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-623-200 (1-267)
QY 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaAsp 20
DB 44 ATGAAGATCTTTATCTTTGCTCTCATTCATTCCTAGCCATGATTAGAGCTGAT 103
QY 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
DB 104 TCATCTGAAGAGAAACGTCACAGGAAACGGAAAAACATCATAGAGGATATTTTCAACA 163
QY 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProAlaTyrProPhePro 58
DB 164 TACCAGCCATATCAACGATATCCACTAAATATCTCTCGGTATCCATTTCCT 217

RESULT 3
US-10-079-754A-1
; Sequence 1, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 505
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-1

Alignment Scores:
Pred. No.: 1,5e-36 Length: 505
Score: 316.00 Matches: 58
Percent Similarity: 100.00% Conservatative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-754A-1 (1-505)
QY 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaAsp 20
DB 44 ATGAAGATCTTTATCTTTGCTCTCATTCATTCCTAGCCATGATTAGAGCTGAT 103
QY 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
DB 104 TCATCTGAAGAGAAACGTCACAGGAAACGGAAAAACATCATAGAGGATATTTTCAACA 163
QY 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProAlaTyrProPhePro 58
DB 164 TACCAGCCATATCAACGATATCCACTAAATATCTCTCGGTATCCATTTCCT 217

RESULT 4
US-10-079-754A-4
; Sequence 4, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 505
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-4

Alignment Scores:
Pred. No.: 1,5e-36 Length: 505
Score: 316.00 Matches: 58
Percent Similarity: 100.00% Conservatative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-754A-4 (1-505)
QY 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaAsp 20
DB 44 ATGAAGATCTTTATCTTTGCTCTCATTCATTCCTAGCCATGATTAGAGCTGAT 103
QY 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
DB 104 TCATCTGAAGAGAAACGTCACAGGAAACGGAAAAACATCATAGAGGATATTTTCAACA 163
QY 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProAlaTyrProPhePro 58
DB 164 TACCAGCCATATCAACGATATCCACTAAATATCTCTCGGTATCCATTTCCT 217
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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 267
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-15

Alignment Scores:
Pred. No.: 6,31e-37 Length: 267
Score: 316.00 Matches: 58
Percent Similarity: 100.00% Conservatative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-754A-15 (1-267)
QY 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaAsp 20
DB 44 ATGAAGATCTTTATCTTTGCTCTCATTCATTCCTAGCCATGATTAGAGCTGAT 103
QY 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
DB 104 TCATCTGAAGAGAAACGTCACAGGAAACGGAAAAACATCATAGAGGATATTTTCAACA 163
QY 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProAlaTyrProPhePro 58
DB 164 TACCAGCCATATCAACGATATCCACTAAATATCTCTCGGTATCCATTTCCT 217

RESULT 2
US-10-079-623-200
; Sequence 200, Application US/10079623
; Publication No. US20020169302A1
; GENERAL INFORMATION:
; APPLICANT: Havukkala, Ilkka J.
; APPLICANT: Glenn, Matthew R.
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; TITLE OF INVENTION: Compositions isolated from bovine
; FILE REFERENCE: 11000.10463
; CURRENT APPLICATION NUMBER: US/10/079,623
; CURRENT FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 370
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 200
; LENGTH: 267
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-623-200

Alignment Scores:
Pred. No.: 6,31e-37 Length: 267
Score: 316.00 Matches: 58
Percent Similarity: 100.00% Conservatative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-623-200 (1-267)
QY 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaAsp 20
DB 44 ATGAAGATCTTTATCTTTGCTCTCATTCATTCCTAGCCATGATTAGAGCTGAT 103
QY 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
DB 104 TCATCTGAAGAGAAACGTCACAGGAAACGGAAAAACATCATAGAGGATATTTTCAACA 163
QY 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProAlaTyrProPhePro 58
DB 164 TACCAGCCATATCAACGATATCCACTAAATATCTCTCGGTATCCATTTCCT 217
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; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 604
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-4
Alignment Scores:
Pred. No.: 1.92e-36 Length: 604
Score: 316.00 Matches: 58
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-754A-4 (1-604)

Qy 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaasp 20
Db 154 ATGAAGATCTTTATCTTGTCTTCATTATGGCTCTCATCTAGCCATGATTAGAGCTGAT 213
Qy 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
Db 214 TCATCTGAAGAGAACGTCACAGGAAACGGAACAAACATCATAGAGGATATTTCAACAA 273
Qy 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyrProPhePro 58
Db 274 TACCAGCCATATCAACGATATCCACTAAATATCTCTCTGCGTATCCATTTCCT 327

RESULT 5
US-10-079-754A-2
; Sequence 2, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 585
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-2
Alignment Scores:
Pred. No.: 2.57e-36 Length: 585
Score: 315.00 Matches: 57
Percent Similarity: 100.00% Conservative: 1
Best Local Similarity: 98.28% Mismatches: 0
Query Match: 99.68% Indels: 0
DB: 14 Gaps: 0

US-10-079-754A-10 (1-58) x US-10-079-754A-2 (1-585)

Qy 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaasp 20
Db 154 ATGAAGATCTTTATCTTGTCTTCATTATGGCTCTCATCTAGCCATGATTAGAGCTGAT 213
Qy 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
Db 214 TCATCTGAAGAGAACGTCACAGGAAACGGAACAAACATCATAGAGGATATTTCAACAA 273
Qy 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyrProPhePro 58
Db 274 TACCAGCCATATCAACGATATCCACTAAATATCTCTCTGCGTATCCATTTCCT 327

RESULT 6
US-10-079-754A-6
; Sequence 6, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 525
; TYPE: DNA
; ORGANISM: Bovine
US-10-079-754A-6
Alignment Scores:
Pred. No.: 7.74e-31 Length: 525
Score: 277.00 Matches: 57
Percent Similarity: 82.61% Conservative: 0
Best Local Similarity: 82.61% Mismatches: 1
Query Match: 87.66% Indels: 12
DB: 14 Gaps: 1

US-10-079-754A-10 (1-58) x US-10-079-754A-6 (1-525)

Qy 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaasp 20
Db 43 ATGAAGATCTTTATCTTGTCTTCATTATGGCTCTCATCTAGCCATGATTAGAGCTGAT 102
Qy 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 35
Db 103 TCATCTGAAGAGAACGTCACAGGAAACGGAACAAACATCATGT-TGATAGGTCTCCAGA 161
Qy 36 -----GlyTyrPheGlnGlnTyrGlnProTyrGlnArgTyrProLeu 49
Db 162 ATTCTTACTTAATACAGAGGATATTTTCAACAAATACCAGCCATATCAACGATATCCACT 221

RESULT 7
US-10-079-754A-3
; Sequence 3, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
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QY 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyr 55
Db 186 ---GAAAAGCATCATTCATACCATATACACACTACTACCACTTTT 227

RESULT 12
US-09-924-340-5
; Sequence 5, Application US/09924340
; Publication No. US20030027248A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91.US2.REG
; CURRENT APPLICATION NUMBER: US/09/924,340
; CURRENT FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 5
; LENGTH: 438
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: 1..83
; NAME/KEY: CDS
; LOCATION: 84..317
; FEATURE:
; NAME/KEY: 3'UTR
; LOCATION: 318..438
; FEATURE:
; NAME/KEY: polyA signal
; LOCATION: 397..402
; NAME/KEY: polyA site
; LOCATION: 423..438
US-09-924-340-5

Alignment Scores:
Pred. No.: 0.000251 Length: 438
Score: 94.50 Matches: 18
Percent Similarity: 56.36% Conservative: 13
Best Local Similarity: 32.73% Mismatches: 17
Query Match: 29.91% Indels: 7
DB: 10 Gaps: 1

US-10-079-754A-10 (1-58) x US-09-924-340-5 (1-438)
QY 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaAsp 20
Db 84 ATGAAGTTTTTTTGTCTTTGCTTTAGTCTTCATGATTTCCATGATTACGCTGAT 143
QY 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
Db 144 TCACATGAAGAGACATCATGGGTATAGAGAAATTCAT 185

RESULT 13
US-09-924-340-5
; Sequence 5, Application US/0992095B
; Publication No. US20030157485A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91.US5.DIV

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; CURRENT APPLICATION NUMBER: US/09/992,095B
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 5
; LENGTH: 438
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: 1..83
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 84..317
; FEATURE:
; NAME/KEY: 3'UTR
; LOCATION: 318..438
; FEATURE:
; NAME/KEY: polyA signal
; LOCATION: 397..402
; NAME/KEY: polyA site
; LOCATION: 423..438
US-09-992-095B-5

Alignment Scores:
Pred. No.: 0.000251 Length: 438
Score: 94.50 Matches: 18
Percent Similarity: 56.36% Conservative: 13
Best Local Similarity: 32.73% Mismatches: 17
Query Match: 29.91% Indels: 7
DB: 10 Gaps: 1

US-10-079-754A-10 (1-58) x US-09-992-095B-5 (1-438)
QY 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleLeuAlaMetIleArgAlaAsp 20
Db 84 ATGAAGTTTTTTTGTCTTTGCTTTAGTCTTCATGATTTCCATGATTACGCTGAT 143
QY 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
Db 144 TCACATGAAGAGACATCATGGGTATAGAGAAATTCAT 185

RESULT 14
US-09-999-570-5
; Sequence 5, Application US/09999570
; Publication No. US20030170628A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: G-091US08DIV
; CURRENT APPLICATION NUMBER: US/09/999,570
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715

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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 20, 2004, 03:04:40 ; Search time 29.5 Seconds  
(without alignments)  
2114.040 Million cell updates/sec

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Perfect score: 1029  
Sequence: 1 gaagratatttcagttctata.....tatcaagcataaaaaaaa 604

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Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 778828

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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-LOOPEXT=0 -UNITS=BITS -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi  
-LIST=45 -DOALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15  
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000  
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-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG  
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents AA.\*  
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4: /cgn2\_6/ptodata/2/iaa/6B COMB.pcp.\*  
5: /cgn2\_6/ptodata/2/iaa/PTUS COMB.pcp.\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles1.pcp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	75	7.2	370	1	US-08-415-818-12 Sequence 12, Appl
C 2	75	7.2	370	2	US-08-894-236-12 Sequence 12, Appl
C 3	75	7.2	370	5	PCT-US96-01444-12 Sequence 12, Appl
C 4	73.5	7.1	1912	4	US-09-495-714C-2 Sequence 2, Appl
C 5	73.5	7.1	1977	4	US-09-495-714C-4 Sequence 4, Appl
C 6	72.5	7.0	1985	4	US-09-495-714C-6 Sequence 6, Appl
C 7	70	6.8	2233	4	US-09-489-847-176 Sequence 176, Appl
C 8	69.5	6.8	275	4	US-09-252-991A-19818 Sequence 19818, A
C 9	68.5	6.6	273	4	US-08-936-165A-395 Sequence 395, A
C 10	68	6.5	482	4	US-09-107-532A-5672 Sequence 5672, Ap
C 11	67.5	6.5	926	1	US-08-159-340A-2 Sequence 2, Appl
C 12	66.5	6.5	161	2	US-08-286-819A-25 Sequence 25, Appl

Sequence 25, Appl  
Sequence 60, Appl  
Sequence 219, App  
Sequence 217, App  
Sequence 27, Appl  
Sequence 1, Appl  
Sequence 5222, Ap  
Sequence 6, Appl  
Sequence 6, Appl  
Sequence 4, Appl  
Sequence 6, Appl  
Sequence 5146, Ap  
Sequence 1, Appl  
Sequence 1244, Ap  
Sequence 8193, Ap  
Sequence 356, App  
Sequence 25, Appl  
Sequence 2, Appl  
Sequence 2, Appl  
Sequence 20066, A  
Sequence 13, Appl  
Sequence 7127, Ap  
Sequence 3464, Ap  
Sequence 6911, Ap  
Sequence 8, Appl  
Sequence 2, Appl  
Sequence 2, Appl  
Sequence 2, Appl  
Sequence 31, Appl  
Sequence 2, Appl

ALIGNMENTS

RESULT 1  
US-08-415-818-12  
; Sequence 12, Application US/08415818  
; Patent No. 5621079  
; GENERAL INFORMATION:  
; APPLICANT: Cascieri, Margaret A.  
; APPLICANT: Linemeyer, David L.  
; APPLICANT: MacNeil, Douglas J.  
; APPLICANT: Shiao, Lin-Lin  
; APPLICANT: Strader, Catherine D.  
; APPLICANT: Tan, Carina P.  
; APPLICANT: Weinberg, David H.  
; TITLE OF INVENTION: NEUROPEPTIDE Y RECEPTOR  
; NUMBER OF SEQUENCES: 12  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: Mary A. Appollina  
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.  
; CITY: Rahway  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 07065  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/415.818  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/383,746  
; FILING DATE: 03-FEB-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Appollina, Mary A.  
; REGISTRATION NUMBER: 34,087

APPLICANT: Linemeyer, David L.  
APPLICANT: MacNeil, Douglas J.  
APPLICANT: Shiao, Lin-Lin  
APPLICANT: Strader, Catherine D.  
APPLICANT: Tan, Carina P.  
APPLICANT: Weinberg, David H.  
TITLE OF INVENTION: NEUROPEPTIDE Y RECEPTOR  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Mary A. Appollina  
STREET: P.O. Box 2000, 126 E. Lincoln Ave.  
CITY: Railway

COUNTRY: USA  
ZIP: 07065  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30

APPLICATION NUMBER: US/08/894,236

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CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/383,746
FILING DATE: 03-FEB-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/415,818
FILING DATE: 03-APR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Apollina, Mary A.
REGISTRATION NUMBER: 34,087
REFERENCE/DOCKET NUMBER: 19390Y
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-594-3462
TELEFAX: 908-594-4720
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 370 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
8-894-236-12

Alignment Scores:
      . No.:      0.892      Length:      370
      .:      75.00      Matches:      49
      .s:      35.51%      Conservative:      27
      Local Similarity:      22.90%      Mismatches:      70
      y Match:      7.23%      Indels:      68
      2      Gaps:      13

0-079-754A-4 (1-604) x US-08-894-236-12 (1-370)
564 ATGTAAGTACAGAGAAAGAAAGTAA-----ACCAATTACATAGTTCAGAGACTA 511
      :::::      :::::      :::      :::      :::::      |||
59 IleIlePheLysGlnArgLysAlaGlnAsnPheThrSerLeuIleAlaAsnLeu 78
      :::::      :::::      :::::      :::::      :::::      |||
510 TCA-----TTATTATGTTTTAAATATGATTTTCATTCCAAGTATGTGTG 463
      |||      |||      |||      |||      |||      |||
79 SerLeuSerAspThrLeuValCysValMetCysIleHisPheThrIleLeuIleThrLeu 98
      |||      |||      |||      |||      |||      |||
462 TGCACACTAC-----TTGACTGATTTTTTTTCTTTGTT 430
      :::::      |||      |||      |||      |||      |||

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429 -----TTATTCATTTGAAGATGGTTTTCAACACACACAGAAAGAGTAGGAAAAATC 379  
::: ::::: ||||| |||||  
119 SerileSerValserilePheSerLeuValPheThrAlaValGluArgTyrGlnLeulle 138  
-----GTGAAAAATCTCTCTAATCATGTCTGTAGTTACTTAAGCAGCAATT 331  
378 ATT-----





QY 108 GAGATGTTCTTCTAGAAAAGCTGCTGTGTTTAAATACCTTGAAATCCTTCATTTGTTTT 49  
DB 726 GlyProPhePheProGlyMetLeuValCysValTyrPheIleLeuPheIleCys--- 744  
QY 48 TGTAAATACATCAGTTATGAGATCTATTATTA 19  
DB 745 GlyAsnTyr-IleLeuLeuAsnValPheLeu 754

## RESULT 7

US-09-489-847-176  
; Sequence 176, Application US/09489847  
; Patent No. 6476195  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al  
; TITLE OF INVENTION: 98 Human Secreted Proteins  
; FILE REFERENCE: P2031P1  
; CURRENT APPLICATION NUMBER: US/09/489,847  
; CURRENT FILING DATE: 2000-01-24  
; EARLIER APPLICATION NUMBER: PCT/US99/17130  
; EARLIER FILING DATE: 1999-07-29  
; EARLIER APPLICATION NUMBER: 60/094,657  
; EARLIER FILING DATE: 1998-07-30  
; EARLIER APPLICATION NUMBER: 60/095,486  
; EARLIER FILING DATE: 1998-08-05  
; EARLIER APPLICATION NUMBER: 60/096,319  
; EARLIER FILING DATE: 1998-08-12  
; EARLIER APPLICATION NUMBER: 60/095,454  
; EARLIER FILING DATE: 1998-08-06  
; EARLIER APPLICATION NUMBER: 60/095,455  
; EARLIER FILING DATE: 1998-08-06  
; NUMBER OF SEQ ID NOS: 376  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 176  
; LENGTH: 233  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (233)  
; OTHER INFORMATION: Xaa equals stop translation  
US-09-489-847-176

Alignment Scores:  
Pred. No.: 3 34 Length: 233  
Score: 70.00 Matches: 25  
Percent Similarity: 43.27% Conservative: 20  
Best Local Similarity: 24.04% Mismatches: 32  
Query Match: 6.80% Indels: 27  
DB: 4 Gaps: 2

US-10-079-754A-4 (1-604) x US-09-489-847-176 (1-233)

QY 305 ATCTCTCGGTATCCATTTCCTTAAATGCTGTAGTAACACAGACATGATTAGAG 364  
DB 131 MetMetValThrThrSerPheLeuSerMetTrpLeuSerAsnThrAlaSer 147  
QY 365 AGATTTTTCACATGATTTTCTACTCTTTCTGTGTTGTTCAAAACCATCTTCAATG 424  
DB 148 -----ThrAlaMetMetLeuProIleAlaAsnAlaIleLeuLysSerLeuPheGlyGln 165  
QY 425 AATAAACAAGAAAAAATCAGTCAAGTAGTTCACACACATACCTTGGAAATCAAT 484  
DB 166 LysGluValArgLysAspProSerGlnGluSerGluGluAsnThrGlyIleGluProAsn 185  
QY 485 ATCAATATTTTAAACAT----- 502  
DB 186 ThrPheLeuSerGluGluArgLeuLysLeuGlnAlaProLeuValIleArgLeuGlyGln 205  
QY 503 -----AATATGATAGTCTCTGAACATATGTAATTTGTTTCTACT 541  
DB 206 IleThrGluSerGlyGlnTrpAsn-MetSerGlyAsnAspValCysAsnPheArgValIle 225  
QY 542 TTCCTTTCTC 551

DB 225 userPheLeu 228  
|||||

## RESULT 8

US-09-252-991A-19818  
; Sequence 19818, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 19818  
; LENGTH: 275  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-19818

Alignment Scores:  
Pred. No.: 3 98 Length: 275  
Score: 69.50 Matches: 34  
Percent Similarity: 31.21% Conservative: 20  
Best Local Similarity: 19.65% Mismatches: 52  
Query Match: 6.75% Indels: 67  
DB: 4 Gaps: 5

US-10-079-754A-4 (1-604) x US-09-252-991A-19818 (1-275)

QY 145 CCACCAATATGAAGATCTTTATCTTTGTCTTC- 177  
DB 30 ProProAspMetArgIlePheLeuProAlaLeuLeuAlaTrpSerThrArgThrArg 49  
QY 178 -----ATT 180  
DB 50 ArgProArgProAlaAlaValIleAlaHisIleSerProAlaAlaProAlaProThrIle 69  
QY 181 ATGGCTCTCATCTAGCCATGATTAGAGCTGATTATCTGAAGAGAAAGCT- 231  
DB 70 SerThrSerValLeuAlaThrValProLeuArgSerSerGluThrAlaArgIleLeuPro 89  
QY 232 -----CACAGAAACGAAAAACATCATAGAGATATTTCAACAATAC 276  
DB 90 GluAlaAlaValGlyArgArgSerSerArgGlyThrLeuGlyValPheArgGluPro 109  
QY 277 CAGCCATATCACGATATCCACTAAATTTATCTCTCGGTATCCATTTCCTTAAATGCT 336  
DB 110 ProAspProCysMetIleProLeuLysTyrLeuGlnAlaTyrProAlaSer 126  
QY 337 GCTTAGTAATACAGACATGATTAGAGATTTTTCACAATGAT- 381  
DB 127 -----LeuGlnAspGlnValArgGlnLeuIleAlaGluAsnArgLeuGlyGluTyr 143  
QY 382 -----TTTTCCTAC 390  
DB 144 LeuGluArgArgTyrProGlyArgHisAspValGlnSerAspLysAlaLeuTyrAlaTyr 163  
QY 391 TCTTTCTGTTGTGTGAACACCATCTTTCAAAATGAATAAACAAGAAAAAATC- 447  
DB 164 ThrMetAsnLeuLysGlnGluHisLeuArgAsnAlaProGlyLeuAspLysValLeuTyr 183  
QY 448 -----AGTCAAGTAGTTGCACACACATCTTGGATC 480  
DB 184 AspAsnLysLeuAspValValGlnArgAlaLeuGlyLeu 196

## RESULT 9

US-08-936-165A-395

Sequence 395, Application US/08936165A  
Patent No. 6348582  
GENERAL INFORMATION:  
APPLICANT: Black, Michael  
APPLICANT: Burnham, Martin  
APPLICANT: Hodgson, John  
APPLICANT: Knowles, David  
APPLICANT: Lonetto, Michael  
APPLICANT: Nicholas, Richard  
APPLICANT: Pratt, Julie  
APPLICANT: Reichard, Richard  
APPLICANT: Rosenberg, Martin  
APPLICANT: Ward, Judith  
TITLE OF INVENTION: No. 6348582el Prokaryotic Polynucleotides,  
TITLE OF INVENTION: Polypeptides and Their Uses  
NUMBER OF SEQUENCES: 534  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SmithKline Beecham Corporation  
STREET: 709 Swedeland Road  
CITY: King of Prussia  
STATE: PA  
COUNTRY: USA  
ZIP: 19406-0939  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/936,165A  
FILING DATE: 24-SEP-1997  
CLASSIFICATION: 536  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/027,032  
FILING DATE: 24-SEP-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Gimmi, Edward R.  
REGISTRATION NUMBER: 38,891  
REFERENCE/DOCKET NUMBER: P50549  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 610-270-4478  
TELEFAX: 610-270-5090  
TELEX:  
INFORMATION FOR SEQ ID NO: 395:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 273 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: Protein  
US-08-936-165A-395

Alignment Scores:  
Pred. No.: 5.28 Length: 273  
Score: 68.50 Matches: 23  
Percent Similarity: 40.66% Conservative: 14  
Best Local Similarity: 25.27% Mismatches: 24  
Query Match: 6.61% Indels: 30  
DB: 4 Gaps: 3

US-10-079-754A-4 (1-604) x US-08-936-165A-395 (1-273)

QY 285 ATATGGCTGGATTGTTGAAATATCTCTATGATGTTTTCGGTTCTCTGACGTTT 226  
Db 61 lletpSerAenPheileGluMetGlySerMetMetLeuLeuProMetSerMetLeuPhe 80  
QY 225 CTCITTCAGATCAATCAGCTCTAATCATCGCTAGGATGAGCCATAATGAAGACAAAGAT 166  
Db 81 LeuPheGlyArgMetLeuSerArgHicgly----- 90  
QY 165 AAAGATCTTCATATTGTTGGTGAGCCAGTCATCAAGAGATGAAATTCGATGCTTCAGGAG 106  
Db 91 LysArgValHis-----ArgHisAlaLeuLeuLeuPheValAla 103

QY 105 ATGTTCTTTGCTAGAAAACCTGCTGTGTTTAAATACCTTGAAATCCTTCATTGTTTGT 46  
Db 104 MetPhePhe-Ile-----PheileAlaI 111  
QY 45 AATTACATCATGTTATGAGATCTTATTATAGA 15  
Db 111 eLeuThrLeuThrMetTrpSerGluTyrArg 121  
RESULT 10  
US-09-107-532A-5672  
Sequence 5672, Application US/09107532A  
Patent No. 6583275  
GENERAL INFORMATION:  
APPLICANT: Lynn A Doucette-Stamm and David Bush  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS  
NUMBER OF SEQUENCES: 7310  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
STREET: 100 Beaver Street  
CITY: Waltham  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02354  
COMPUTER READABLE FORM:  
MEDIUM TYPE: CD-ROM ISO9660  
COMPUTER: PC  
OPERATING SYSTEM: <Unknown>  
SOFTWARE: ASCII  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/107,532A  
FILING DATE: 30-Jun-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/085,598  
FILING DATE: 14 May 1998  
APPLICATION NUMBER: 60/051571  
FILING DATE: July 2, 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Ariniello, Pamela Deneke  
REGISTRATION NUMBER: 40,489  
REFERENCE/DOCKET NUMBER: GTC-012  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (781)893-5007  
TELEFAX: (781)893-8277  
INFORMATION FOR SEQ ID NO: 5672:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 482 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: YES  
ORIGINAL SOURCE:  
ORGANISM: Enterococcus faecium  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (B) LOCATION 1...482  
SEQUENCE DESCRIPTION: SEQ ID NO: 5672:  
US-09-107-532A-5672

Alignment Scores:  
Pred. No.: 6.87 Length: 482  
Score: 68.00 Matches: 31  
Percent Similarity: 43.54% Conservative: 33  
Best Local Similarity: 21.09% Mismatches: 41  
Query Match: 6.56% Indels: 42  
DB: 4 Gaps: 7

US-10-079-754A-4 (1-604) x US-09-107-532A-5672 (1-482)

QY 546 AGAAGTAGAACAATACATGATTCAGAGA----- 514  
Db 167 GlnAenLeuLysPheAsnTyrLysMetGlnGlnTyrTyrPheValPheThrLeuIlePhe 186

QY 513 -----CTATCATATTATGTTTAAATATGATTGATTTGATTCACAGTATGTTGTGC 460  
Db 187 SerLeuIleThrPhePheMetPheArgPheGluTyrPheThrArgTyrThrTyrSer 206  
QY 459 AACTACTTGACTGATTTTCTTCTGTTTATTCATTTGAAAGATGTTTCAACACA 400  
Db 207 AsnLeuIleThrAsnSerSerLeuTyrLeuIlePhe-----PheSerAla 221  
QY 399 ACAGAAAGAGTA-----GGAAATCATTTG-----AAAATCTCTCAATCAT 355  
Db 222 ThrLysGlyIleAlaThrAlaSerLeuIleMetGluAlaGlnLysPheLeuThrHis 241  
QY 354 GTC-----CTGTAGTTACTAGCAGCATTTTA----- 328  
Db 242 LysAsnIleArgArgLeuLeuValSerSerPheLeuPheIleTyrAsnValAsnProPhe 261  
QY 327 -----AGAAATGATGCGAGGAGGATAATTTAGTGGATATCTTGTATGCGTG 277  
Db 262 AsnValSerArgTyrTyrIleSerTyrValValIleLeuPheMetLeuIlePhePheThr 281  
QY 276 GTATGTTGAAATATCTCTCTATG-----ATGTTTTTCCCGTTT 238  
Db 282 LysLysIleLysValAsnGlnMetLeuLeuLeuLeuLeuLeuGlyMetPhePheIlePhe 301  
QY 237 CTGTGACGTTTCTCTTCA 217  
Db 302 ProLeuLeuAsnPhePheArg 308

RESULT 11  
US-08-159-340A-2  
; Sequence 2, Application US/08159340A  
; Patent No. 5565352  
; GENERAL INFORMATION:  
; APPLICANT: Hochstrasser, Mark  
; APPLICANT: Papa, Fercoz  
; TITLE OF INVENTION: DEUBIQUITINATING ENZYME: COMPOSITIONS  
; TITLE OF INVENTION: AND METHODS  
; NUMBER OF SEQUENCES: 44  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Arnold, White & Durkee  
; STREET: P.O. Box 4433  
; CITY: Houston  
; STATE: Texas  
; COUNTRY: USA  
; ZIP: 77210  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/159,340A  
; FILING DATE: 24-NOV-1993  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Highlander, Steven L.  
; REGISTRATION NUMBER: 37,642  
; REFERENCE/DOCKET NUMBER: ARCD:112/HVL  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (512) 418-3000  
; TELEFAX: (512) 474-7577  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 926 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-159-340A-2

Alignment Scores: 9.1 Length: 926  
Pred. No.:

Score: 67.50 Matches: 48  
Percent Similarity: 39.11% Conservative: 22  
Best Local Similarity: 26.82% Mismatches: 51  
Query Match: 6.56% Indels: 58  
DB: 1 Gaps: 10  
US-10-079-754A-4 (1-604) x US-08-159-340A-2 (1-926)  
QY 82 CACGAGTTTCTAGCAAGAACATCTCTCTGAGCATCAGAAATTC-----ATCTTT 132  
Db 390 GlnGlnSerAspAsnAspHisValLeuLysArgSerSerSerPheLysLeuPhe 409  
QY 133 CATGACTGAGCTCCCAATATGAG-----ATCTTTATCTTTGCTTC 177  
Db 410 SerAsnTyrThrSerProAsnProLysAsnSerAsnSerAsnLeuTyrSerIleSer 429  
QY 178 ATTATGCTCTCATCTCTAGCATGATTAGCTGATTCTCTGAGAGAAACGTCACAG 237  
Db 429 rLeuSerIleSerSerSerProSerProLeuProLeuHisSerProAspProValLys 449  
QY 238 AAACGGA-----AAAAACATCATAGGA 261  
Db 449 YasnSerPheArgIleAsnTyrProGluThrProHisLeuTyrLysAsnSerGluThrAs 469  
QY 262 TATTTTC-----AACATACCGCATATCAACGATAT 294  
Db 469 PheMetThrAsnGlnArgGlnLeuAsnHisAsnSerPheAlaHisIleAlaProI 489  
QY 295 CCACATAATTATCTCTCTGCTATCCATTTCTTAAATGCTGCTCTAGTAACACAGGAC 354  
Db 489 eAsn-----ThrLysAlaIleThrSerProSerArgTh 500  
QY 355 A-----TGATTAGAGAGATTTTTCACATGATTTTCTCT---ACTCTTTCTGTTGT 402  
Db 500 rAlaThrProLysLeuGlnArg-----PheProGlnThrIleSerMetAs 515  
QY 403 GTTGAAACCATCTCTTCAATGAATAAAACAAAGAAAAAATCAAGTAGTGTGCA 452  
Db 515 nLeu-----AsnMetAsnSerAsnGlyHisSerSerAlaThrSerThrIleG 531  
QY 463 CAACACATCTTGAATCAATATCAATATTTTAAACATAATAATGATGATCTC 517  
Db 531 nProSerCysLeuSerLeuSer-----AsnAsnAspSerLeu 543

RESULT 12  
US-08-286-819A-25  
; Sequence 25, Application US/08286819A  
; Patent No. 5671910  
; GENERAL INFORMATION:  
; APPLICANT: ARTHUR, MICHEL  
; APPLICANT: DUKTA-MALEN, SYLVIE  
; APPLICANT: MOLINAS, CATHERINE  
; APPLICANT: COURVALIN, PATRICE  
; TITLE OF INVENTION: POLYPEPTIDES IMPLICATED IN THE  
; TITLE OF INVENTION: EXPRESSION OF RESISTANCE TO GLYCOPOLYMERIDES, IN PARTICULAR  
; TITLE OF INVENTION: IN GRAM-POSITIVE BACTERIA, NUCLEOTIDE SEQUENCE CODING FOR  
; TITLE OF INVENTION: THESE POLYPEPTIDES AND USE FOR DIAGNOSIS  
; NUMBER OF SEQUENCES: 54  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: ORLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,  
; ADDRESSEE: P.C.  
; STREET: 1755 S. Jefferson Davis Highway, Suite 400  
; CITY: Arlington  
; STATE: Virginia  
; COUNTRY: U.S.A.  
; ZIP: 22202  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/286,819A

FILING DATE: 05-AUG-1994  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/174,682  
 FILING DATE: 28-DEC-1993  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/917,146  
 FILING DATE: 10-AUG-1992  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: PCT/FR/91/00855  
 FILING DATE: 29-OCT-1991  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: FR 9013579  
 FILING DATE: 31-OCT-1990  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Oblon, No. 587,910man F.  
 REGISTRATION NUMBER: 24,618  
 REFERENCE/DOCKET NUMBER: 660-060-0 PCT  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (703) 413-3000  
 TELEFAX: (703) 413-2220  
 TELEX: 248855 OPAT UR  
 INFORMATION FOR SEQ ID NO: 25:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 161 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-286-819A-25

Alignment Scores:  
 Pred. No.: 8.32 Length: 161  
 Score: 66.50 Matches: 21  
 Percent Similarity: 50.00% Conservative: 8  
 Best Local Similarity: 36.21% Mismatches: 18  
 Query Match: 6.46% Indels: 11  
 DB: 2 Gaps: 2

US-10-079-754A-4 (1-604) x US-08-286-819A-25 (1-161)

QY 31 ATAACTGATGTAATACAAAACAAATGAAGGATTTCAAGGTATTAAACACAGCAGTTT 90  
 Db 105 ILeThraSpValIleThraSnThrValGlyGlyPheLeuGlyLeuLysLeuTyGlyLeu 124  
 QY 91 TTAGCAAGAACATCTCTGAGCATCAGAAATTTTCATCTTTCATGCTGACTGCCACCA 150  
 Db 125 SerAsn-----LysHisMetAsnGlnLysLysLeuAsp----- 135  
 QY 151 AATATGAGATCTTTATCTTCTTCATTATGCTCTCATCTCCTAGCCATGATT 204  
 Db 136 -----ArgValIleIlePheValGlyIleLeuLeuValLeuLeuVal 151

RESULT 13

US-08-980-357-25  
 Sequence 25, Application US/08980357  
 Patent No. 6013508  
 GENERAL INFORMATION:  
 APPLICANT: ARTHUR, MICHEL  
 APPLICANT: DUKTA-WALEN SYLVIE  
 APPLICANT: MOLINAS, CATHERINE  
 APPLICANT: CORVALIN, PATRICE  
 TITLE OF INVENTION: POLYPEPTIDES IMPLICATED IN THE  
 TITLE OF INVENTION: EXPRESSION OF RESISTANCE TO GLYCOPETIDES, IN PARTICULAR  
 TITLE OF INVENTION: IN GRAM-POSITIVE BACTERIA, NUCLEOTIDE SEQUENCE CODING FOR  
 TITLE OF INVENTION: THESE POLYPEPTIDES AND USE FOR DIAGNOSIS  
 NUMBER OF SEQUENCES: 54  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,  
 ADDRESSEE: P.C.  
 STREET: 1755 S. Jefferson Davis Highway, Suite 400

CITY: Arlington  
 STATE: Virginia  
 COUNTRY: U.S.A.  
 ZIP: 22202  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/980,357  
 FILING DATE:  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/286,819  
 FILING DATE: 05-AUG-1994  
 APPLICATION NUMBER: US 08/174,682  
 FILING DATE: 28-DEC-1993  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/917,146  
 FILING DATE: 10-AUG-1992  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: PCT/FR/91/00855  
 FILING DATE: 29-OCT-1991  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: FR 9013579  
 FILING DATE: 31-OCT-1990  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Oblon, No. 601,350man F.  
 REGISTRATION NUMBER: 24,618  
 REFERENCE/DOCKET NUMBER: 660-060-0 PCT  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (703) 413-3000  
 TELEFAX: (703) 413-2220  
 TELEX: 248855 OPAT UR  
 INFORMATION FOR SEQ ID NO: 25:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 161 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-980-357-25

Alignment Scores:  
 Pred. No.: 8.32 Length: 161  
 Score: 66.50 Matches: 21  
 Percent Similarity: 50.00% Conservative: 8  
 Best Local Similarity: 36.21% Mismatches: 18  
 Query Match: 6.46% Indels: 11  
 DB: 2 Gaps: 2

US-10-079-754A-4 (1-604) x US-08-980-357-25 (1-161)

QY 31 ATAACTGATGTAATACAAAACAAATGAAGGATTTCAAGGTATTAAACACAGCAGTTT 90  
 Db 105 ILeThraSpValIleThraSnThrValGlyGlyPheLeuGlyLeuLysLeuTyGlyLeu 124  
 QY 91 TTAGCAAGAACATCTCTGAGCATCAGAAATTTTCATCTTTCATGCTGACTGCCACCA 150  
 Db 125 SerAsn-----LysHisMetAsnGlnLysLysLeuAsp----- 135  
 QY 151 AATATGAGATCTTTATCTTCTTCATTATGCTCTCATCTCCTAGCCATGATT 204  
 Db 136 -----ArgValIleIlePheValGlyIleLeuLeuValLeuLeuVal 151

RESULT 14

US-09-393-634-60  
 Sequence 60, Application US/09393634  
 Patent No. 6558910  
 GENERAL INFORMATION:  
 APPLICANT: Zuker, Charles S.  
 APPLICANT: Adler, Jon Elliot  
 APPLICANT: Ryba, Nick



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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 20, 2004, 04:26:25 ; Search time 60.5 Seconds

(without alignments)  
5504.350 Million cell updates/sec

Title: US-10-079-754A-4

Perfect score: 1029

Sequence: 1 gaagatatttcagttcttata.....tatcaagcataaaaaaaa 604

Scoring table: BLOSUM62

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Xgapop 10.0 , Xgapext 0.5

Fgapop 6.0 , Fgapext 7.0

Delopt 6.0 , Delext 7.0

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 2249750

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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-DB=Published Applications AA -QFMT=fastan -SUFFIX=rapb -MINMATCH=0.1  
-LOOPEL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=DIscrim62  
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100  
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-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5  
-Fgapop=6 -Fgapext=7 -YGAPOP=10 -YGAPEXT=0.5 -DELopt=6 -DELext=7

Database : Published Applications AA:

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11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*  
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17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match Length	ID	Description
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#### ALIGNMENTS

#### RESULT 1

US-10-079-754A-7  
Sequence 7, Application US/10079754A  
Publication No. US20020164625A1

GENERAL INFORMATION:

APPLICANT: Glenn, Matthew

APPLICANT: Grigor, Murray R.

APPLICANT: Molenaar, Adrian J.

APPLICANT: Davis, Stephen R.

TITLE OF INVENTION: Compositions Isolated from Bovine Mammary Gland and Methods for Their Use

FILE REFERENCE: 11000.1068

CURRENT APPLICATION NUMBER: US/10/079,754A

CURRENT FILING DATE: 2002-02-19

PRIOR APPLICATION NUMBER: US 09/699,146

PRIOR FILING DATE: 2000-10-27

PRIOR APPLICATION NUMBER: US 60,162,701

PRIOR FILING DATE: 1999-10-29

PRIOR APPLICATION NUMBER: US 09/644,190

PRIOR FILING DATE: 2000-08-22

PRIOR APPLICATION NUMBER: US 60,150,330

PRIOR FILING DATE: 1999-08-23

NUMBER OF SEQ ID NOS: 15

SOFTWARE: FastSeq for Windows Version 4.0

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316	30.7	58	13	US-10-079-754A-7	Sequence 7, Appli																																							
316	30.7	58	13	US-10-079-754A-10	Sequence 10, Appli																																							
315	30.6	58	13	US-10-079-754A-8	Sequence 8, Appli																																							
214.5	20.8	59	13	US-10-079-754A-12	Sequence 12, Appli																																							
169	16.4	70	13	US-10-079-754A-9	Sequence 9, Appli																																							
112	10.9	21	13	US-10-079-754A-11	Sequence 11, Appli																																							
110	10.7	62	12	US-10-210-172-168	Sequence 168, App																																							
95	9.2	51	9	US-09-917-340-19	Sequence 19, Appli																																							
94.5	9.2	78	10	US-09-992-600A-6	Sequence 6, Appli																																							
94.5	9.2	78	10	US-09-924-340-6	Sequence 6, Appli																																							
94.5	9.2	78	10	US-09-992-095B-6	Sequence 6, Appli																																							
94.5	9.2	78	10	US-09-999-570-6	Sequence 6, Appli																																							
94.5	9.2	78	14	US-10-000-489-6	Sequence 6, Appli																																							
94.5	9.2	78	14	US-10-000-986-6	Sequence 6, Appli																																							
94.5	9.2	78	14	US-10-154-678-6	Sequence 6, Appli																																							
77	7.5	1830	12	US-10-424-599-147146	Sequence 147146,																																							
76.5	7.4	197	9	US-09-811-284-137	Sequence 197, App																																							
75	7.2	423	9	US-09-870-759-103	Sequence 103, App																																							
75	7.2	423	10	US-09-751-708A-103	Sequence 103, App																																							
73.5	7.1	240	12	US-10-282-122A-54218	Sequence 54218, A																																							
73.5	7.1	246	16	US-10-389-566-1227	Sequence 1227, Ap																																							
73.5	7.1	382	15	US-10-369-493-5291	Sequence 5291, Ap																																							
73	7.0	373	13	US-10-114-893-204	Sequence 204, App																																							
72	7.0	806	12	US-10-282-122A-63502	Sequence 63502, A																																							
71	6.9	1201	15	US-10-214-529-7	Sequence 7, Appli																																							
70	6.8	233	12	US-10-351-334-176	Sequence 176, App																																							
70	6.8	276	12	US-10-424-599-154373	Sequence 154373,																																							
70	6.8	294	12	US-10-424-599-156848	Sequence 156848,																																							
70	6.8	309	12	US-09-510-332-131	Sequence 131, App																																							
69.5	6.8	614	12	US-10-282-122A-53563	Sequence 53563, A																																							
69	6.7	229	12	US-10-282-122A-71761	Sequence 71761, A																																							
69	6.7	317	12	US-10-424-599-159483	Sequence 159483,																																							
69	6.7	406	15	US-10-369-493-2232	Sequence 2232, A																																							
69	6.7	454	12	US-10-282-122A-52793	Sequence 52793, A																																							
68.5	6.6	273	9	US-09-939-980-395	Sequence 395, App																																							
68	6.6	369	12	US-10-335-977-7067	Sequence 7067, Ap																																							
68	6.6	408	12	US-10-335-977-7068	Sequence 7068, Ap																																							
68	6.6	465	12	US-10-335-977-7069	Sequence 7069, Ap																																							
68	6.6	685	12	US-10-282-122A-67143	Sequence 67143, A																																							
68	6.6	722	12	US-10-306-631-17	Sequence 17, Appl																																							
68	6.6	722	12	US-10-306-631-25	Sequence 25, Appl																																							
68	6.6	722	12	US-10-306-631-103	Sequence 103, App																																							
68	6.6	722	12	US-10-306-631-105	Sequence 105, App																																							
67.5	6.6	163	12	US-10-424-599-189979	Sequence 189979,																																							
67.5	6.6	248	10	US-09-955-526-4	Sequence 4, Appli																																							

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; SEQ ID NO 7
; LENGTH: 58
; TYPE: PRT
; ORGANISM: Bovine
US-10-079-754A-7
Alignment Scores:
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Score: 316.00 Matches: 58
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 30.71% Indels: 0
DB: 13 Gaps: 0
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QY 154 ATGAGATCTTTATCTTCTTCATATGCTCTCATCTAGCTCCTAGCCATGATTAGAGTGAT 213
BB 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleAlaMetIleAlaGalaasp 20
QY 214 TCATCTGAAGAGAAACGTACAGGAAACGGAACAAACATCATAGAGATATTTCAACAA 273
DB 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
QY 274 TACCAGCATATCAACGATATCCACTAAATATCTCTCGGTATCCATTTCCT 327
DB 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyrProPhePro 58
RESULT 2
US-10-079-754A-10
; Sequence 10, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 58
; TYPE: PRT
; ORGANISM: Bovine
US-10-079-754A-8
Alignment Scores:
Pred. No.: 4.88e-29 Length: 58
Score: 315.00 Matches: 57
Percent Similarity: 100.00% Conservative: 1
Best Local Similarity: 98.28% Mismatches: 0
Query Match: 30.61% Indels: 0
DB: 13 Gaps: 0
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DB 1 MetLysIlePheIlePheValPheIleMetAlaLeuIleAlaMetIleAlaGalaasp 20
QY 214 TCATCTGAAGAGAAACGTACAGGAAACGGAACAAACATCATAGAGATATTTCAACAA 273
DB 21 SerSerGluGluLysArgHisArgLysArgLysLysHisArgGlyTyrPheGlnGln 40
QY 274 TACCAGCATATCAACGATATCCACTAAATATCTCTCGGTATCCATTTCCT 327
DB 41 TyrGlnProTyrGlnArgTyrProLeuAsnTyrProProAlaTyrProPhePro 58
RESULT 4
US-10-079-754A-12
; Sequence 12, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; CURRENT FILING DATE: 2002-02-19
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; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 59
; TYPE: PRT
; ORGANISM: Bovine
US-10-079-754A-12

Alignment Scores:
Pred. No.: 59
Score: 6.58e-17
Length: 59
Percent Similarity: 214.50
Matches: 47
Best Local Similarity: 78.33%
Conservative: 0
Query Match: 78.33%
Mismatch: 1
Indels: 12
Gaps: 1
DB: 13

US-10-079-754A-4 (1-604) x US-10-079-754A-12 (1-59)
QY 154 ATGAGATCTTATCTTCTTCATTTGCTCTCATCTAGCCATGATTAGAGCTGAT 213
Db 1 MetLysIlePheIlePheValMetAlaLeuIleLeuAlaMetIleAargAlaasp 20
QY 214 TCATCTGAAGAGAAACGTCACAGGAACGGAAAAACATCAT 255
Db 21 SerSerGluGluYsArgHisArgLysHisValAspArgSerProGlu 40
QY 256 -----AGAGGATATTTCAACATACCGCCATATCAACGATATCCAC 298
Db 41 PheLeuLeuIleGlnGlu-AspIlePheAsnAsnThrSerHisIleAsnAspIleHis 59

RESULT 5
US-10-079-754A-9
; Sequence 9, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 70
; TYPE: PRT
; ORGANISM: Bovine
US-10-079-754A-9

Alignment Scores:
Pred. No.: 21e-11
Score: 1e5.00
Length: 70
Percent Similarity: 100.00%
Matches: 33
Best Local Similarity: 97.06%
Query Match: 100.00%
Mismatch: 1
Indels: 0
Gaps: 0
DB: 1
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Query Match: 16.42%
DB: 13
Indels: 0
Gaps: 0
US-10-079-754A-4 (1-604) x US-10-079-754A-9 (1-70)
QY 154 ATGAGATCTTATCTTCTTCATTTGCTCTCATCTAGCCATGATTAGAGCTGAT 213
Db 1 MetLysIlePheIlePheValMetAlaLeuIleLeuAlaMetIleAargAlaasp 20
QY 214 TCATCTGAAGAGAAACGTCACAGGAACGGAAAAACATCAT 255
Db 21 SerSerGluGluYsArgHisArgLysHisValAspArgSerProGlu 40

RESULT 6
US-10-079-754A-11
; Sequence 11, Application US/10079754A
; Publication No. US20020164625A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; FILE REFERENCE: 11000.1068
; CURRENT APPLICATION NUMBER: US/10/079,754A
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/699,146
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60,162,701
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 09/644,190
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60,150,330
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Bovine
US-10-079-754A-11

Alignment Scores:
Pred. No.: 0.000127
Score: 112.00
Length: 21
Percent Similarity: 100.00%
Matches: 18
Best Local Similarity: 94.74%
Conservative: 1
Query Match: 94.74%
Mismatch: 0
Indels: 0
Gaps: 0
DB: 13

US-10-079-754A-4 (1-604) x US-10-079-754A-11 (1-21)
QY 265 TTTCAACAATACCAGCCATATCAACGATATCCACTAAATATTCCTCGTATCCA 321
Db 1 PheGlnGlnTyGlnProTyGlnArgTyProLeuAsnTyProProAlaTyPro 19

RESULT 7
US-10-210-172-168
; Sequence 168, Application US/10210172
; Publication No. US20040043928A1
; GENERAL INFORMATION:
; APPLICANT: Kerkuta, Ramesh
; APPLICANT: Miller, Charles
; APPLICANT: Patturajan, Meera
; APPLICANT: Pena, Carol
; APPLICANT: Rieger, Daniel
; APPLICANT: Shimkets, Richard
; APPLICANT: Zerkusen, Bryan
; APPLICANT: Li, Li
; APPLICANT: Ji, Weizhen
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Casman, Stacie
```

APPLICANT: Voss, Edward  
APPLICANT: Boldog, Ferenc  
APPLICANT: Gorman, Linda  
APPLICANT: Leite, Mario  
APPLICANT: Vernet, Corine  
APPLICANT: Anderson, David  
APPLICANT: Guo, Xiaojia  
APPLICANT: Zhong, Mei  
APPLICANT: Gerlach, Valerie  
APPLICANT: Hjalt, Tord  
APPLICANT: Rastelli, Luca  
APPLICANT: Spytsek, Kimberiy  
APPLICANT: Edinger, Shlomit  
APPLICANT: Ellerman, Karen  
APPLICANT: Malyankar, Uriel  
APPLICANT: MacDougall, John  
APPLICANT: Stone, David  
APPLICANT: Alsobrook II, John  
APPLICANT: Lepley, Denise et al.  
TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD  
FILE REFERENCE: 21402-416 A  
CURRENT APPLICATION NUMBER: US/10/210,172  
PRIOR FILING DATE: 2001-08-01  
PRIOR APPLICATION NUMBER: 60/309,501  
PRIOR FILING DATE: 2001-08-02  
PRIOR APPLICATION NUMBER: 60/323,994  
PRIOR FILING DATE: 2001-09-21  
PRIOR APPLICATION NUMBER: 60/373,814  
PRIOR FILING DATE: 2002-04-19  
PRIOR APPLICATION NUMBER: 60/310,291  
PRIOR FILING DATE: 2001-08-03  
PRIOR APPLICATION NUMBER: 60/310,951  
PRIOR FILING DATE: 2001-08-08  
PRIOR APPLICATION NUMBER: 60/310,544  
PRIOR FILING DATE: 2001-08-07  
PRIOR APPLICATION NUMBER: 60/311,292  
PRIOR FILING DATE: 2001-08-09  
PRIOR APPLICATION NUMBER: 60/311,979  
PRIOR FILING DATE: 2001-08-13  
PRIOR APPLICATION NUMBER: 60/313,201  
PRIOR FILING DATE: 2001-08-17  
PRIOR APPLICATION NUMBER: 60/312,892  
PRIOR FILING DATE: 2001-08-16  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 327  
SOFTWARE: Curaseqlist version 0.1  
SEQ ID NO 168  
LENGTH: 62  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-210-172-168  
Alignment Scores:  
Pred. No.: 0.000271  
Score: 110.00  
Length: 62  
Matches: 62  
Conservative: 27  
Percent Similarity: 61.82%  
Best Local Similarity: 49.09%  
Query Match: 10.69%  
DB: 12  
Gaps: 2  
US-10-079-754a-4 (1-604) x US-10-210-172-168 (1-62)  
QY 154 ATGAAGATCTTTATCTTCTTCATTCATGCTCTCATCTAGCATGATTAGAGTGTAT 213  
Db 1 MetLysPheLeuValPheAlaPheLeuAlaLeuMetValSerMetileGlyAlaAasp 20  
QY 214 TCATCTGAAGAACGTCACGAAACGGAACGGAACATCATAGAGATATTTTCAACAA 273  
Db 21 SerSerGluGluLysPheLeuAa-gargileGlyArgPheGlyTyrGlyTyr---GlyPro 39  
QY 274 TACCAGGCATATCAACGATATCCACTAAATATCTCTCGGTAT 318  
Db 40 TyrGlnProValProGluGlnProLeu---TyrProGlnProTyr 53

RESULT 8  
US-09-917-340-19  
Sequence 19, Application US/09917340  
Patent NO. US2002090369A1  
GENERAL INFORMATION:  
APPLICANT: Murphy, Christopher J.  
APPLICANT: McAnulty, Jonathan F.  
APPLICANT: Reid, Ted W.  
TITLE OF INVENTION: Transplant Media  
FILE REFERENCE: TPLANT-06468  
CURRENT APPLICATION NUMBER: US/09/917,340  
CURRENT FILING DATE: 2001-07-29  
PRIOR APPLICATION NUMBER: 60/221,632  
PRIOR FILING DATE: 2000-07-28  
PRIOR APPLICATION NUMBER: 60/249,602  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/290,932  
PRIOR FILING DATE: 2001-05-15  
NUMBER OF SEQ ID NOS: 96  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 19  
LENGTH: 51  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-917-340-19  
Alignment Scores:  
Pred. No.: 0.0169  
Score: 95.00  
Length: 51  
Matches: 22  
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Percent Similarity: 59.57%  
Best Local Similarity: 46.81%  
Query Match: 9.23%  
DB: 9  
Gaps: 2  
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QY 154 ATGAAGATCTTTATCTTCTTCATTCATGCTCTCATCTAGCATGATTAGAGTGTAT 213  
Db 1 MetLysPhePheValPheAlaLeuLeuAlaLeuMetLeuSerMetThrGlyAlaAasp 20  
QY 214 TCATCTGAAGAACGTCAC---AGGAACGGAACAAACAT-----CAT 255  
Db 21 SerHisAlaLysArgHisHisGlyTyrLysArgLysPheHisGluLysHisSerHis 40  
QY 256 AGAGGATATTTTCAACATAC 276  
Db 41 ArgGlyTyrArgSerAsnTyr 47  
RESULT 9  
US-09-992-600A-6  
Sequence 6, Application US/09992600A  
Publication No. US20030027161A1  
GENERAL INFORMATION:  
APPLICANT: Benjamin, Stephanie  
APPLICANT: Tanaka, Hiroaki  
TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF  
FILE REFERENCE: 91.US4.DIV  
CURRENT APPLICATION NUMBER: US/09/992,600A  
CURRENT FILING DATE: 2001-11-13  
PRIOR APPLICATION NUMBER: US 09/924,340  
PRIOR FILING DATE: 2001-08-06  
PRIOR APPLICATION NUMBER: PCT/IB01/01715  
PRIOR FILING DATE: 2001-08-06  
PRIOR APPLICATION NUMBER: US 60/305,456  
PRIOR FILING DATE: 2001-07-13  
PRIOR APPLICATION NUMBER: US 60/302,277  
PRIOR FILING DATE: 2001-06-29  
PRIOR APPLICATION NUMBER: US 60/298,698  
PRIOR FILING DATE: 2001-06-15  
PRIOR APPLICATION NUMBER: US 60/293,574  
PRIOR FILING DATE: 2001-05-25  
NUMBER OF SEQ ID NOS: 114

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; SOFTWARE: JPatent
; SEQ ID NO 6
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: 1..19
US-09-992-600A-6

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Pred. No.: 0.021          Length: 78
Score: 94.50             Matches: 18
Percent Similarity: 56.36% Conservative: 13
Best Local Similarity: 32.73% Mismatches: 17
Query Match: 9.18%       Indels: 7
DB: 10                   Gaps: 1

US-10-079-754A-4 (1-604) x US-09-992-600A-6 (1-78)
QY 154 ATGAAGATCTTTATCTTTGCTTCATATGGCTCTCATCTAGCCATGATTAGAGCTGAT 213
Db 1 MetLysPhePheValPheAlaLeuValLeuAlaLeuMetIleSerMetIleSerAlaasp 20
QY 214 TCATCTGAAGAGAAACGCTCACAGGAACGGAACGGAACATCATAGAGGATATTTCAACAA 273
Db 21 SerHisGluLysArgHisGlyTyrArgArgLysPheHis----- 34
QY 274 TACCAGCCATATCAACGATATCCACTAAATATTCCTCTCGGTAT 318
Db 35 ---GluLysHisHisSerTyrHisIleThrLeuLeuProLeuPhe 48

RESULT 11
US-09-992-095B-6
; Sequence 6, Application US/09992095B
; Publication No. US20030157485A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91.US2.DIV
; CURRENT APPLICATION NUMBER: US/09/992,095B
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 6
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: 1..19
US-09-992-095B-6

Alignment Scores:
Pred. No.: 0.021          Length: 78
Score: 94.50             Matches: 18
Percent Similarity: 56.36% Conservative: 13
Best Local Similarity: 32.73% Mismatches: 17
Query Match: 9.18%       Indels: 7
DB: 10                   Gaps: 1

US-10-079-754A-4 (1-604) x US-09-992-095B-6 (1-78)
QY 154 ATGAAGATCTTTATCTTTGCTTCATATGGCTCTCATCTAGCCATGATTAGAGCTGAT 213
Db 1 MetLysPhePheValPheAlaLeuValLeuAlaLeuMetIleSerMetIleSerAlaasp 20
QY 214 TCATCTGAAGAGAAACGCTCACAGGAACGGAACGGAACATCATAGAGGATATTTCAACAA 273
Db 21 SerHisGluLysArgHisGlyTyrArgArgLysPheHis----- 34
QY 274 TACCAGCCATATCAACGATATCCACTAAATATTCCTCTCGGTAT 318
Db 35 ---GluLysHisHisSerTyrHisIleThrLeuLeuProLeuPhe 48

RESULT 12
US-09-999-570-6
; Sequence 6, Application US/09999570
; Publication No. US20030170628A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
; QY 154 ATGAAGATCTTTATCTTTGCTTCATATGGCTCTCATCTAGCCATGATTAGAGCTGAT 213
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DB: 14 Gaps: 1
US-10-079-754A-4 (1-604) x US-10-000-986-6 (1-78)
QY 154 ATGAAGATCTTTATCTTTCTCTTCATTATGGCTCTCATCTAGCCATGATTAGAGCTGAT 213
Db 1 MetLysPhePheValPheAlaLeuValLeuAlaLeuMetIleSerMetIleSerAlaAsp 20
QY 214 TCATCTGAAGAGAAAGCTCACAGGAAACGGAAAAACATCATAGAGGATATTTTCAACA 273
Db 1 MetLysPhePheValPheAlaLeuValLeuAlaLeuMetIleSerMetIleSerAlaAsp 20
QY 214 TCATCTGAAGAGAAAGCTCACAGGAAACGGAAAAACATCATAGAGGATATTTTCAACA 273
Db 1 MetLysPhePheValPheAlaLeuValLeuAlaLeuMetIleSerMetIleSerAlaAsp 20
QY 21 SerHisGluLysArgHisGlyTyrArgArgLysPheHis 34
Db 1 SerHisGluLysArgHisGlyTyrArgArgLysPheHis 34
QY 274 TACGACCATATCAACGATATCCACTAAATATTCTCTCGGTAT 318
Db 1 TACGACCATATCAACGATATCCACTAAATATTCTCTCGGTAT 318
QY 35 ---GluLysHisHisSerTyrHisIleThrLeuLeuProLeuPhe 48
Db 1 ---GluLysHisHisSerTyrHisIleThrLeuLeuProLeuPhe 48

RESULT 15
US-10-154-678-6
; Sequence 6, Application US/10154678
; Publication No. US20030162186A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 182.USI.REG
; CURRENT APPLICATION NUMBER: US/10/154,678
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 6
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -19..-1
US-10-154-678-6

Alignment Scores:
Pred. No.: 0.021 Length: 78
Score: 94.50 Matches: 18
Percent Similarity: 56.36% Conserved: 13
Best Local Similarity: 32.73% Mismatches: 17
Query Match: 9.18% Indels: 7
DB: 14 Gaps: 1

US-10-079-754A-4 (1-604) x US-10-154-678-6 (1-78)
QY 154 ATGAAGATCTTTATCTTTCTCTTCATTATGGCTCTCATCTAGCCATGATTAGAGCTGAT 213
Db 1 MetLysPhePheValPheAlaLeuValLeuAlaLeuMetIleSerMetIleSerAlaAsp 20
QY 214 TCATCTGAAGAGAAAGCTCACAGGAAACGGAAAAACATCATAGAGGATATTTTCAACA 273
Db 1 MetLysPhePheValPheAlaLeuValLeuAlaLeuMetIleSerMetIleSerAlaAsp 20
QY 21 SerHisGluLysArgHisGlyTyrArgArgLysPheHis 34
Db 1 SerHisGluLysArgHisGlyTyrArgArgLysPheHis 34
QY 274 TACGACCATATCAACGATATCCACTAAATATTCTCTCGGTAT 318
Db 1 TACGACCATATCAACGATATCCACTAAATATTCTCTCGGTAT 318
QY 35 ---GluLysHisHisSerTyrHisIleThrLeuLeuProLeuPhe 48
Db 1 ---GluLysHisHisSerTyrHisIleThrLeuLeuProLeuPhe 48

Search completed: April 20, 2004, 04:48:58
Job time : 73.5 secs

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Search completed: April 20, 2004, 04:48:58  
Job time : 73.5 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 20, 2004, 01:46:13 ; Search time 60 Seconds  
(without alignments)  
5586.506 Million cell updates/sec

Title: US-10-079-754A-4  
Perfect score: 604  
Sequence: 1 gaactatttcagttctata.....tatcaagcataaaaaaaa 604

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA.\*  
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2: /cgn2\_6/ptodata/2/ina/5B\_COMB.seq.\*  
3: /cgn2\_6/ptodata/2/ina/6A\_COMB.seq.\*  
4: /cgn2\_6/ptodata/2/ina/6B\_COMB.seq.\*  
5: /cgn2\_6/ptodata/2/ina/PCTUS\_COMB.seq.\*  
6: /cgn2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	42.4	7.0	640681	4	US-09-790-988-1
2	42.2	7.0	640681	4	US-09-790-988-1
3	41.8	6.9	11131	4	US-10-204-708-28
4	41.4	6.9	5501	4	US-10-204-708-38
5	41.4	6.9	19513	4	US-10-204-708-39
6	41.2	6.8	1864	4	US-09-468-265-4
7	41	6.8	750	4	US-09-023-655-197
8	41	6.8	5152	4	US-10-204-708-74
9	41	6.8	11469	4	US-09-367-895-29
10	41	6.8	11478	3	US-08-981-803-29
11	41	6.8	11478	3	US-08-983-440-29
12	40.8	6.8	6152	3	US-08-973-462-1
13	40.4	6.7	465	6	5496550-9
14	40.4	6.7	466	6	5496550-7
15	40.2	6.7	6152	3	US-08-973-462-1
16	40	6.6	789	4	US-09-702-705-214
17	40	6.6	789	4	US-09-736-457-214
18	40	6.6	789	4	US-09-614-1248-214
19	40	6.6	789	4	US-09-671-325-214
20	40	6.6	789	4	US-09-589-184-214
21	40	6.6	6583	4	US-10-204-708-26
22	40	6.6	7664	4	US-10-204-708-84
23	39.8	6.6	4185	4	US-09-417-485D-7
24	39.8	6.6	6107	4	US-09-482-273-47
25	39.8	6.6	10640	4	US-09-417-485D-5
26	39.6	6.6	10640	4	US-09-417-485D-5
27	39.4	6.5	128779	4	US-09-497-855A-38

28	39.2	6.5	832	4	US-09-621-976-2813	Sequence 2813, Ap
29	39	6.5	832	4	US-09-621-976-2813	Sequence 2813, Ap
30	39	6.5	19124	2	US-08-487-826B-13	Sequence 13, Appl
31	39	6.5	164976	4	US-08-916-421B-1	Sequence 1, Appl
32	38.8	6.4	19124	2	US-08-487-826B-13	Sequence 13, Appl
33	38.4	6.4	510	4	US-09-543-681A-2706	Sequence 2706, Ap
34	38.4	6.4	989	3	US-08-817-926-2	Sequence 2, Appl
35	38.4	6.4	3562	3	US-08-817-926-19	Sequence 19, Appl
36	38.4	6.4	202001	4	US-09-734-674-3	Sequence 3, Appl
37	38	6.3	1897	1	US-08-184-632-1	Sequence 1, Appl
38	38	6.3	10467	4	US-10-204-708-2	Sequence 2, Appl
39	37.8	6.3	786431	4	US-09-751-389-3	Sequence 3, Appl
40	37.6	6.2	5535	4	US-10-204-708-18	Sequence 18, Appl
41	37.4	6.2	5340	4	US-09-627-122-21	Sequence 21, Appl
42	37.4	6.2	5852	1	US-07-867-106-2	Sequence 2, Appl
43	37.2	6.2	5360	4	US-10-204-708-65	Sequence 65, Appl
44	37	6.1	840	4	US-09-134-001C-1831	Sequence 1831, Ap
45	37	6.1	2621	2	US-08-553-619B-8	Sequence 8, Appl

ALIGNMENTS

RESULT 1  
US-09-790-988-1  
; Sequence 1, Application US/09790988  
; Patent No. 6632935  
; GENERAL INFORMATION:  
; APPLICANT: SHIGENOBU, SHUJI  
; APPLICANT: WATANABE, HIDEKI  
; APPLICANT: HATTORI, MASAHIRA  
; APPLICANT: SAKAKI, YOSHIYUKI  
; TITLE OF INVENTION: GENOME DNA OF BACTERIAL SYMBIONT OF APHIDS  
; FILE REFERENCE: 0813567/0159  
; CURRENT APPLICATION NUMBER: US/09/790,988  
; CURRENT FILING DATE: 2001-02-23  
; PRIOR APPLICATION NUMBER: JP2000-107160  
; PRIOR FILING DATE: 2000-04-07  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: Patent in Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 640681  
; TYPE: DNA  
; ORGANISM: Buchnera sp.  
US-09-790-988-1

Query Match	7.0%	Score 42.4;	DB 4;	Length 640681;
Best Local Similarity	47.4%;	Pred. No. 1.8;	141;	Indels 0;
Matches 127;	Conservative	0;	Mismatches	0;
Gaps	0;			
Qy	39	TGTAATTACAAAACAAATGAAGGATTTCAGGTTTAAACACACAGCAGTTTCTAGCAA	98	
Db	518530	TATAAAANTTAGAAAACAACTAAATTAATGTTTGTAGAAAAGAAAACCTCTATTAG	518589	
Qy	99	AGAACATCTCTCCTGAAGCATCAGAAATTCATCTTCATGCTGACGTCACCAATATGAA	158	
Db	518590	AGTAATACAAAGAAAGTATGCTAGTCTATTATTATGATATATTTAAAAAACCTATGCA	518649	
Qy	159	GATCTTTATCTTTGCTCTTATTATGCTCTCATCTAGCCATGATTAGAGCTGATTCATC	218	
Db	518650	AAATTTTTTCATGAATTTATAAGACAGAAAATAAATAATTTATGTTCTCCGAATT	518709	
Qy	219	TGAAGAGAAACGTCACAGGAAACGGAAAACATCATAGAGGATATTTTCAACATACCA	278	
Db	518710	TTATATCCATCAAGATGAAGATAAAAAGAAATATTTTGAATATTTCTGTAATTTACGA	518769	
Qy	279	GCCATATCAACGATATCCACTAAATAT	306	
Db	518770	ACTATATCCCAATTTCAATATAAAGAT	518797	

RESULT 2  
US-09-790-988-1/c

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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-204-708-28

Query Match      6.9%; Score 41.8; DB 4; Length 11131;
Best Local Similarity 44.8%; Pred. No. 0.8;
Matches 160; Conservative 0; Mismatches 197; Indels 0; Gaps 0;

QY 244 AAAAAACATCATAGAGGATATTTTCAACAATACCGCATATCAACGAGATCCACATAAT 303
Db 9085 AACATAAATAACAAAGGAAGTCCGCTCAAAAAAACCACACAAAAAACAACACT 9026

QY 304 TATCCTCTCGPATCCATTTCCCTTAAATGCTTGATGTAATACAGGACATGATTAGA 363
Db 9025 TAACTAATAATACTATTATAAATAACAACTTCCTCAATAACTTTTATAAATTTTACTTT 8966

QY 364 GAGATTTTTCACAAATGATTTTCCCTACTCTTTCTGTTGTTGTTGAAACCACTTTTCAAAT 423
Db 8965 CAAATATACCTCAATCATTTTAAACAATAATTATCTAAACCCAAATCCCTTATCAATTAAT 8906

QY 424 GAATAAAACAAAGAAAAAATAAATACGTCAAGTAGTTGCGACACACATCTTGGAAATCAAA 483
Db 8905 AATTAACTACATAAAATTAACATAAATCATTTAAATAATCAAAATTTTAAACCACAA 8846

QY 484 TATCAATATTTTAAACATAAATAATGATAGTCTCTGAACTATGTAATGTTTCTACTTT 543
Db 8845 ACTCCAAAAATTTCTAATTTAATTTATATAAAACCTTAAATCCATATAATTTAAATTTT 8786

QY 544 CTTTTCTCTGCTACTTACCATGATGCTTATAAATGATCTATCAAGCATATAAAAA 600
Db 8785 CTCAATTTAAATAAATATATATATATATATATATATATACAAATCCAAAAATAAAAAACAA 8729

RESULT 4
US-10-204-708-38/c
; Sequence 38 Application US/10204708
; Patent No. 6672731
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIEPENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA Replication
; TITLE OF INVENTION: by Assessing DNA Methylation
; FILE REFERENCE: 5013.1012
; CURRENT APPLICATION NUMBER: US/10/204,708
; CURRENT FILING DATE: 2003-05-06
; PRIOR APPLICATION NUMBER: PCT/EP01/03971
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: DE 10019058.8
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: DE 10033529.7
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 98
; SEQ ID NO 38
; LENGTH: 5501
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-204-708-38

Query Match      6.9%; Score 41.4; DB 4; Length 5501;
Best Local Similarity 49.8%; Pred. No. 0.82;
Matches 105; Conservative 0; Mismatches 106; Indels 0; Gaps 0;

QY 300 AATTATTCCTCTCGTATCCATTTCTTAAATGCTGTAGTAACTACAGGACATGAT 359
Db 2041 AATTATTAATAACTAATCCCAATTCCTTACATTATACTTTTAAATTCAAAAATAAA 1992

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QY 360 TAGAGAGATTTTCAACATGATTTTCTCCTACCTCTTCTGTGTGTGTTGAAACCAATCTTTC 419
Db 1981 TACATTTTATTTAAACAAAAATATCTTCAAAACAAAATATCTAAATATCACCTAAA 1922
QY 420 AATGATATAACAAAGAAAAAATATCAGTCAAGTAGTTGCACAAACATATCTTGGAT 479
Db 1921 ATAAATTTAAACAAAAAATATATAACAAAAAACTAAACAAATCATATATATAA 1862
QY 480 CAATATCAATATTTTAAACATATAATGA 510
Db 1861 TAAATATATAAAATATAAATAAATAATCA 1831

RESULT 5
US-10-204-708-39/c
; Sequence 39, Application US/10204708
; Patent No. 6677731
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: FIEBENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA Replication
; TITLE OF INVENTION: by Assessing DNA Methylation
; FILE REFERENCE: 5013.1012
; CURRENT APPLICATION NUMBER: US/10/204,708
; CURRENT FILING DATE: 2003-05-06
; PRIOR APPLICATION NUMBER: PCT/EP01/03971
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: DE 10019058.8
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: DE 10032529.7
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 98
; SEQ ID NO 39
; LENGTH: 19513
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-204-708-39

Query Match 6.9%; Score 41.4; DB 4; Length 19513;
Best Local Similarity 46.9%; Pred. No. 1.2; Indels 0; Gaps 0;
Matches 129; Conservative 0; Mismatches 146;

QY 227 AACGTCACAGAAACGGAAAAACATCATATAGAGATATTTTCAACAATACCAGCCATATC 286
Db 9628 AACTACTCAAAAACTACAAATAAAAAATCGCTTAAACCTTAAACAAAAACAAAATTACAATA 9569
QY 287 AACGATATCCATTAATTTCTCTCGGTATCCATTTCTTAAATGCTGCTAGTAAC 346
Db 9568 AACCAAAATCGCACCACTATATCTCAACCTAAATAACAAACAAACCTCGCTCAAAAA 9509
QY 347 TACAGGACATGATATAGAGAGATTTTTCACATGATTTTTCCTACTCTTCTGTGTGTTG 406
Db 9508 AAAAAAATAAAAAAATAAAATTAACCTACTATAAATTTTCAAAATAAATAATACATAAT 9449
QY 407 AAACCATCTTTCAATGATTAACAAAGAAAAAATATAGTCAAGTAGTTGCACAAAC 466
Db 9448 AACCAACATTTTCAATATTTTCAACCAAAAAAATAAATAAATAATATACATAT 9389
QY 467 ACATATCTGGAATCAATATCAATATTTTAAAAACA 501
Db 9368 ACTTAATAAACAATAAACAATAAATAATCATATA 9354

RESULT 6
US-09-468-265-4

Query Match 6.9%; Score 41.4; DB 4; Length 19513;
Best Local Similarity 46.9%; Pred. No. 1.2; Indels 0; Gaps 0;
Matches 129; Conservative 0; Mismatches 146;

QY 227 AACGTCACAGAAACGGAAAAACATCATATAGAGATATTTTCAACAATACCAGCCATATC 286
Db 9628 AACTACTCAAAAACTACAAATAAAAAATCGCTTAAACCTTAAACAAAAACAAAATTACAATA 9569
QY 287 AACGATATCCATTAATTTCTCTCGGTATCCATTTCTTAAATGCTGCTAGTAAC 346
Db 9568 AACCAAAATCGCACCACTATATCTCAACCTAAATAACAAACAAACCTCGCTCAAAAA 9509
QY 347 TACAGGACATGATATAGAGAGATTTTTCACATGATTTTTCCTACTCTTCTGTGTGTTG 406
Db 9508 AAAAAAATAAAAAAATAAAATTAACCTACTATAAATTTTCAAAATAAATAATACATAAT 9449
QY 407 AAACCATCTTTCAATGATTAACAAAGAAAAAATATAGTCAAGTAGTTGCACAAAC 466
Db 9448 AACCAACATTTTCAATATTTTCAACCAAAAAAATAAATAAATAATATACATAT 9389
QY 467 ACATATCTGGAATCAATATCAATATTTTAAAAACA 501
Db 9368 ACTTAATAAACAATAAACAATAAATAATCATATA 9354

RESULT 7
US-09-023-655-197/c
; Sequence 197, Application US/09023655
; Patent No. 6607879
; GENERAL INFORMATION:
; APPLICANT: Cocks, Benjamin G.
; APPLICANT: Susan G. Stuart
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
; TITLE OF INVENTION: EXPRESSION
; NUMBER OF SEQUENCES: 1508
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
```

```
; Sequence 4, Application US/09468265
; Patent No. 6379928
; GENERAL INFORMATION:
; APPLICANT: Berka, Randy M
; APPLICANT: Cullen, Daniel
; APPLICANT: Gray, Gregory L
; APPLICANT: Havenga, Kirk J
; APPLICANT: Lawlis, Virgil B
; TITLE OF INVENTION: Heterologous Polypeptides Expressed in Filamentous Fungi, Process
; TITLE OF INVENTION: Making Same and Vectors for Making Same
; FILE REFERENCE: A-42909-5
; CURRENT APPLICATION NUMBER: US/09/468,265
; CURRENT FILING DATE: 1999-12-10
; PRIOR APPLICATION NUMBER: 08/484,384
; PRIOR FILING DATE: 1995-06-07
; PRIOR APPLICATION NUMBER: 08/284,942
; PRIOR FILING DATE: 1994-08-02
; PRIOR APPLICATION NUMBER: 07/413,010
; PRIOR FILING DATE: 1989-09-25
; PRIOR APPLICATION NUMBER: 07/163,219
; PRIOR FILING DATE: 1988-02-26
; PRIOR APPLICATION NUMBER: 06/882,224
; PRIOR FILING DATE: 1986-07-07
; PRIOR APPLICATION NUMBER: 06/771,374
; PRIOR FILING DATE: 1985-08-29
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 4
; LENGTH: 1864
; TYPE: DNA
; ORGANISM: Emericella nidulans
US-09-468-265-4

Query Match 6.8%; Score 41.2; DB 4; Length 1864;
Best Local Similarity 46.3%; Pred. No. 0.88; Indels 0; Gaps 0;
Matches 136; Conservative 0; Mismatches 158;

QY 221 AAGAGAAACGTCACAGAAACGGAAAAACATCATAGAGATATTTTCAACAATACCAGC 280
Db 1224 AAGATATACTAGCCAGGTAGACAATAATTAACCTTAAATATATAAAAAATAGCTACTAA 1283
QY 281 CATATCAACGATATCCATAAATATCTCTCGGTATCCATTTCTTAAATGCTGCTT 340
Db 1284 AACTGAATAATATAAAGATAGTATTTATCTAAGTATAAATCTTAAATCTTAGTAATACTA 1343
QY 341 AGTAACCTACAGGACATGATTAGAGAGATTTTTCACATGATTTTCTCTACTCTTCTGTT 400
Db 1344 AAGATTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1403
QY 401 GTGTGAAACCATCTTCAATGAATAAACAAGAAAAAATCAAGTCAAGTAGTTG 460
Db 1404 CTTTATTATAATATTATTAATAAATAAAGCTAAGCTAAGATAAATTTACTTAAGAACTA 1463
QY 461 CACACACATACCTGGATCAATATCAATATTTTAAACATATATGATGACT 514
Db 1464 TAAAAATAGCTTAGGAGATAATAAGCTCTATAAAAAATTAATTAAGATTAT 1517

RESULT 7
US-09-655-197/c
; Sequence 197, Application US/09023655
; Patent No. 6607879
; GENERAL INFORMATION:
; APPLICANT: Cocks, Benjamin G.
; APPLICANT: Susan G. Stuart
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
; TITLE OF INVENTION: EXPRESSION
; NUMBER OF SEQUENCES: 1508
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
```

STATE: CALIFORNIA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/023,655  
FILING DATE: HERewith  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Zeller, Karen J.  
REGISTRATION NUMBER: 37,071  
REFERENCE/DOCKET NUMBER: PA-0001 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (650) 855-0555  
TELEFAX: (650) 845-4166  
INFORMATION FOR SEQ ID NO: 197:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 750 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: THPIEB01  
CLONE: 073582  
US-09-023-655-197

Query Match	6.8%; Score 41; DB 4; Length 750;
Best Local Similarity	51.4%; Pred. No. 0.58;
Matches	95; Conservative 0; Mismatches 90; Indels 0; Gaps 0;
QY	365 AGATTTTTCACAAATGATTTTTCCTACCTCTTTCTGTGTGTTGAGAAACCACATCTTTCAAATG 424
Db	517 ACAATGATAAGATGATGTTTAACTATTTTTTGAAATATAAATAAACCTATATCAT 458
QY	425 AATAAAACAAGAAAAAANAATCAGTCAAGTAGTTGTCACACACATCTTTGGAATCAAT 484
Db	457 TTTAGTAAAAAAGAAAAATATAATAGTCTCTTTGCAAGACCACCATTCATAAAAAAT 398
QY	485 ATCAATATTTTAAACACATAATAATGATGAGTCTCTGAACTATGTAATTGGTTTCTACTTTC 544
Db	397 GTAATAATTGTATGTCAAATTCGACATCCCTTTTACTCGGTAAATTCGTGTTTATGC 338
QY	545 TTTTC 549
Db	337 CGTTC 333

RESULT 8  
 US-10-204-708-74/c  
 ; Sequence 74, Application US/10204708  
 ; Patent No. 6577731  
 ; GENERAL INFORMATION:  
 ; APPLICANT: GLEK, Alexander  
 ; APPLICANT: PIEPENBROCK, Christian  
 ; APPLICANT: BERLIN, Kurt  
 ; TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA Replication  
 ; TITLE OF INVENTION: by Assessing DNA Methylation  
 ; FILE REFERENCE: 5013 1012  
 ; CURRENT APPLICATION NUMBER: US/10/204,708  
 ; CURRENT FILING DATE: 2003-05-06  
 ; PRIOR APPLICATION NUMBER: PCT/EP01/03971  
 ; PRIOR FILING DATE: 2001-04-06  
 ; PRIOR APPLICATION NUMBER: DE 10019058.8  
 ; PRIOR FILING DATE: 2000-04-06  
 ; PRIOR APPLICATION NUMBER: DE 10019173.8

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; PRIOR FILLING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: DE 10032529.7
; PRIOR FILLING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILLING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 98
; SEQ ID NO 74
; LENGTH: 5152
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-204-708-74

Query Match      6.8%; Score 41; DB 4; Length 5152;
Best Local Similarity 50.2%; Pred. No. 1;
Matches 101; Conservative 0; Mismatches 100; Indels 0; Gaps 0;

QY      404  TTGAAAACCATCTTTTCAAATGAATAAAACAAAGAAAAAATCAAGTCAAGTAGTTGCAC 463
          |||
Db      4931  TTTAAAAATATTTACCTAAATTAATAATCTTTTAAACAAAACATAATATAATAAATTCATC 4872
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QY      464  AACACATACTTGGAAATCAAATATCAATATTTTAAAAACAATAAATGATAGTCTCTGAAC 523
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Db      4871  AAAAAACCTATAAAAAATAAATAAACATATTTTAAACAATAAACTACCTATTTTAAAAACT 4812
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QY      524  AAGTAATTGGTTCTACTTTCTTCTCTGTGCACATTACCATGCATGCTTAATAAAATTGAT 583
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Db      4811  ATTACTCATTTATTCTTATACTTAACCTTAACCTCATATAATAATATACCTAAAAAAT 4752
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QY      584  CTATCAAGCATAAAAAAA 604
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Db      4751  TAATAATCCATAAACC AAAA 4731
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RESULT 9  
 US-09-367-895-29/c  
 ; Sequence 29, Application US/09367895  
 ; Patent No. 6483009  
 ; GENERAL INFORMATION:  
 ; APPLICANT: POULSEN, PETER  
 ; TITLE OF INVENTION: ANTISENSE INTRON INHIBITION OF STARCH BRANCHING ENZYME  
 ; TITLE OF INVENTION: EXPRESSION  
 ; FILE REFERENCE: 078883/0112  
 ; CURRENT APPLICATION NUMBER: US/09/367,895  
 ; CURRENT FILING DATE: 1999-12-08  
 ; PRIOR APPLICATION NUMBER: PCT/IB99/00270  
 ; PRIOR FILING DATE: 1998-02-23  
 ; PRIOR APPLICATION NUMBER: GB/9703663.6  
 ; PRIOR FILING DATE: 1997-02-21  
 ; PRIOR APPLICATION NUMBER: GB/9706060.2  
 ; PRIOR FILING DATE: 1997-03-24  
 ; NUMBER OF SEQ ID NOS: 43  
 ; SOFTWARE: patentin Ver. 2.1  
 ; SEQ ID NO 29  
 ; LENGTH: 11469  
 ; TYPE: DNA  
 ; ORGANISM: Solanum tuberosum  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (2132..2209, 3375..3494, 3812..4033, 4538..4606,  
 ; LOCATION: 4753..5082, 5241..6146, 6345..6461, 6670..6732,  
 ; LOCATION: 7026..7133, 7510..7611, 7784..7852, 7938..8075,  
 ; LOCATION: 8321..8437, 9235..9630)  
 US-09-367-895-29

	Query Match	Best Local Similarity	Score 41;	DB 4;	Length 11469;
	Matches	51.4%;	Pred. No. 1.3;	Mismatches 90;	Indels 0;
	95;	Conservative	0;		Gaps 0;
Qy	368	TTTTTCACAATGATTTTCTCTACTCTTTCTGTGTGTGTGTGAAACCACTTTTCAATGAAT	427		
Db	11372	TTTGACATCTTTTCTGTGTATAAATTTCTTTCTTTTCAATAACCAACCAACCAATGAAG	11313		

QY 428 AAAACAAGAAAAAATCAGTCAAGTAGTTGCACACACATCTTGGATCAATATC 487  
DB 11312 AAAACAATGAAGAAATCAATAGAAAGAGGAAGATTTTCATCTCATTTTGAAGCGAA 11253  
QY 488 AATATTTTAAACATAAATGATAGTCTCTGAACTATGTAATTGGTTTCTACTTTCTTT 547  
DB 11252 AATCTACTAGAGAAGATGATGATGAACTCTTGAAACTTTTCATTAGTGACACCCCTTGGT 11193  
QY 548 TCTCT 552  
DB 11192 CTACT 11188

RESULT 10  
US-08-981-803-29/c  
; Sequence 29, Application US/08981803  
; Patent No. 6147279  
; GENERAL INFORMATION:  
; APPLICANT: POULSEN, PETER  
; TITLE OF INVENTION: INHIBITION OF GENE EXPRESSION  
; FILE REFERENCE: 674509-2004  
; CURRENT APPLICATION NUMBER: US/08/981,803  
; EARLIER FILING DATE: 1997-04-17  
; EARLIER APPLICATION NUMBER: PCT/EP96/03052  
; EARLIER FILING DATE: 1996-07-12  
; EARLIER APPLICATION NUMBER: 9514435.8  
; EARLIER FILING DATE: 1995-07-14  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 29  
; LENGTH: 11478  
; TYPE: DNA  
; ORGANISM: Solanum tuberosum  
US-08-981-803-29

Query Match 6.8%; Score 41; DB 3; Length 11478;  
Best Local Similarity 51.4%; Pred. No. 1.3;  
Matches 95; Conservative 0; Mismatches 90; Indels 0; Gaps 0;  
QY 368 TTTTTCACATGATTTTCTCTACTCTTTCTGTGTGTGTTGAAACCACTTTTCAATGAAT 427  
DB 11381 TTGACATCTTTTCTGTATATAATTTCTTTTTCATTAACACCAACCAATGAAG 11322  
QY 428 AAAACAAGAAAAAATCAGTCAAGTAGTTGCACACACATCTTGGATCAATATC 487  
DB 11321 AAAACAATGAAGAAATCAATAGAAAGAGGAAGATTTTCATCTCATTTTGAAGCGAA 11262  
QY 488 AATATTTTAAACATAAATGATAGTCTCTGAACTATGTAATTGGTTTCTACTTTCTTT 547  
DB 11261 AATCTACTAGAGAAGATGATGATGAACTCTTGAAACTTTTCATTAGTGACACCCCTTGGT 11202  
QY 548 TCTCT 552  
DB 11201 CTACT 11197

RESULT 11  
US-08-983-440-29/c  
; Sequence 29, Application US/08983440  
; Patent No. 6232122  
; GENERAL INFORMATION:  
; APPLICANT: POULSEN, Peter  
; TITLE OF INVENTION: INHIBITION OF GENE EXPRESSION  
; FILE REFERENCE: 674509-2003  
; CURRENT APPLICATION NUMBER: US/08/983,440  
; EARLIER FILING DATE: 1998-04-17  
; EARLIER APPLICATION NUMBER: 9514437.4  
; EARLIER FILING DATE: 1995-07-14  
; EARLIER APPLICATION NUMBER: PCT/EP96/03053  
; EARLIER FILING DATE: 1996-07-12  
; NUMBER OF SEQ ID NOS: 35  
; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 29  
; LENGTH: 11478  
; TYPE: DNA  
; ORGANISM: Solanum tuberosum  
; FEATURE:  
; NAME/KEY: variation  
; LOCATION: (1)..(11478)  
; OTHER INFORMATION: B stands for G or C or T/U  
; FEATURE:  
; NAME/KEY: variation  
; LOCATION: (1)..(11478)  
; OTHER INFORMATION: R stands for G or A  
; FEATURE:  
; NAME/KEY: variation  
; LOCATION: (1)..(11478)  
; OTHER INFORMATION: K stands for G or T/U  
; FEATURE:  
; NAME/KEY: variation  
; LOCATION: (1)..(11478)  
; OTHER INFORMATION: W stands for A or T/U  
; FEATURE:  
; NAME/KEY: variation  
; LOCATION: (1)..(11478)  
; OTHER INFORMATION: M stands for A or C  
US-08-983-440-29

Query Match 6.8%; Score 41; DB 3; Length 11478;  
Best Local Similarity 51.4%; Pred. No. 1.3;  
Matches 95; Conservative 0; Mismatches 90; Indels 0; Gaps 0;  
QY 368 TTTTTCACATGATTTTCTCTACTCTTTCTGTGTGTGTTGAAACCACTTTTCAATGAAT 427  
DB 11381 TTGACATCTTTTCTGTATATAATTTCTTTTTCATTAACACCAACCAATGAAG 11322  
QY 428 AAAACAAGAAAAAATCAGTCAAGTAGTTGCACACACATCTTGGATCAATATC 487  
DB 11321 AAAACAATGAAGAAATCAATAGAAAGAGGAAGATTTTCATCTCATTTTGAAGCGAA 11262  
QY 488 AATATTTTAAACATAAATGATAGTCTCTGAACTATGTAATTGGTTTCTACTTTCTTT 547  
DB 11261 AATCTACTAGAGAAGATGATGATGAACTCTTGAAACTTTTCATTAGTGACACCCCTTGGT 11202  
QY 548 TCTCT 552  
DB 11201 CTACT 11197

RESULT 12  
US-08-973-462-1  
; Sequence 1, Application US/08973462B  
; Patent No. 6191270  
; GENERAL INFORMATION:  
; APPLICANT: DRUILHE, PIERRE  
; APPLICANT: DAUBERSIES, PIERRE  
; TITLE OF INVENTION: MALARIAL PRE-ERYTHROCYTIC STAGE POLYPEPTIDE MOLECULES  
; FILE REFERENCE: 0660-0125-0 PCT  
; CURRENT APPLICATION NUMBER: US/08/973,462B  
; CURRENT FILING DATE: 1998-02-06  
; EARLIER APPLICATION NUMBER: PCT/FR96/00894  
; EARLIER FILING DATE: 1996-06-12  
; EARLIER APPLICATION NUMBER: FR 95/07007  
; EARLIER FILING DATE: 1995-08-13  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 6152  
; TYPE: DNA  
; ORGANISM: P. falciparum  
US-08-973-462-1

Query Match 6.8%; Score 40.8; DB 3; Length 6152;  
Best Local Similarity 53.0%; Pred. No. 1.2;  
Matches 87; Conservative 0; Mismatches 77; Indels 0; Gaps 0;

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DB 309 AAAAAAAAAAAAAAAAAAATCACTATATAGTATGTATAATATATATATATA 368
QY 480 CAAATATCAATATTTTAAACAATAAATGATAGTCTCTGAACATGTAATGGTTTCTA 539
DB 369 TATATATATATATATATATATTTTATTTTATTTTATTTTATTTTATTTT 428
QY 540 CTTTCTCTGTCACCTACCATGCATGCCTTTAATAAATGAT 583
DB 429 TATTATCTTTTATGTCGTATATAACAAGAGTGGAAAAAAT 472

RESULT 13
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; Patent No. 5496550
; APPLICANT: WALLACH, MICHAEL; PUGATSCH, THEA; MENCHER, DAVID
; TITLE OF INVENTION: METHOD OF REDUCING THE OUTPUT OF EIMERIA
; OOCYSTS FROM A NEWBORN CHICK
; NUMBER OF SEQUENCES: 10
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/108,763
; FILING DATE: 17-AUG-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 642,219
; FILING DATE: 16-JAN-1991
; APPLICATION NUMBER: 310,603
; FILING DATE: 14-FEB-1989
; APPLICATION NUMBER: 155,245
; FILING DATE: 12-FEB-1988
; APPLICATION NUMBER: 896,611
; FILING DATE: 14-AUG-1986
; SEQ ID NO:9:
; LENGTH: 465
5496550-9

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Best Local Similarity 51.7%; Pred. No. 0.71; Indels 0; Gaps 0;
Matches 92; Conservative 0; Mismatches 86;

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QY 485 ATCAATATTTTAAACAATAAATGATAGTCTCTGAACATGTAATGGTTTCTACTTTC 544
DB 209 ATAAATAAATAAATAAATAAATTTATTTATTTATTTATTTATTTATTTATTTG 268
QY 545 TTTTCTCTGCATCCATGCATGCTTAATAAATGATCTATCAAGCATAAAAAAA 602
DB 269 GTGCTTTGTGATTCATGTCATGATATTCACCTTCAAAAAGCCGCAAAAAATA 326

RESULT 14
5496550-7
; Patent No. 5496550
; APPLICANT: WALLACH, MICHAEL; PUGATSCH, THEA; MENCHER, DAVID
; TITLE OF INVENTION: METHOD OF REDUCING THE OUTPUT OF EIMERIA
; OOCYSTS FROM A NEWBORN CHICK
; NUMBER OF SEQUENCES: 10
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/108,763
; FILING DATE: 17-AUG-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 642,219
; FILING DATE: 16-JAN-1991
; APPLICATION NUMBER: 310,603
; FILING DATE: 14-FEB-1989
; APPLICATION NUMBER: 155,245
; FILING DATE: 12-FEB-1988
; APPLICATION NUMBER: 896,611
; FILING DATE: 14-AUG-1986
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; SEQ ID NO:7:
; LENGTH: 466
5496550-7
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Query Match 6.7%; Score 40.4; DB 6; Length 466;
Best Local Similarity 51.7%; Pred. No. 0.71; Indels 0; Gaps 0;
Matches 92; Conservative 0; Mismatches 86;

QY 425 AATAAACAAGAAAAAATCAGTCAGTAGTGGACACACATACCTTGGAAATCAAAAT 484
DB 150 AAGCAAGAACAACCTCTTTATAGACATGATGATGAATAAACAATTAATAA 209
QY 485 ATCAATATTTTAAACAATAAATGATAGTCTCTGAACATGTAATGGTTTCTACTTTC 544
DB 210 ATAAATAAATAAATAAATAAATTTATTTATTTATTTATTTATTTATTTG 269
QY 545 TTTTCTCTGCATCCATGCATGCTTAATAAATGATCTATCAAGCATAAAAAAA 602
DB 270 GTGCTTTGTGATTCATGTCATGATATTCACCTTCAAAAAGCCGCAAAAAATA 327
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RESULT 15
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; Sequence 1, Application US/08973462B
; Patent No. 6191270
; GENERAL INFORMATION:
; APPLICANT: DRUILHE, PIERRE
; APPLICANT: DAUBERSIES, PIERRE
; TITLE OF INVENTION: MALARIAL PRE-ERYTHROCYTIC STAGE POLYPEPTIDE MOLECULES
; FILE REFERENCE: 0660-0125-0 PCT
; CURRENT APPLICATION NUMBER: US/08/973,462B
; CURRENT FILING DATE: 1998-02-06
; EARLIER APPLICATION NUMBER: PCT/FR96/00894
; EARLIER FILING DATE: 1996-06-12
; EARLIER APPLICATION NUMBER: FR 95/07007
; EARLIER FILING DATE: 1995-06-13
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 1
; LENGTH: 6152
; TYPE: DNA
; ORGANISM: P. falciparum
US-08-973-462-1
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Query Match 6.7%; Score 40.2; DB 3; Length 6152;
Best Local Similarity 56.4%; Pred. No. 1.6; Indels 0; Gaps 0;
Matches 75; Conservative 0; Mismatches 58;

QY 420 AAATGAATAAACAAGAAAAAATCAGTCAGTAGTGGACACACATACCTTGGAAAT 479
DB 440 AAAAAAGATAATATAAAAAAATAAATAAATAAATAAATAAATAAATAAATA 381
QY 480 CAAATATCAATATTTTAAACAATAAATGATAGTCTCTGAACATGTAATGGTTTCTA 539
DB 380 TATATATATATATATATATATATATATATATATATATATATATATATATAT 321
QY 540 CTTTCTTTTCTCT 552
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Search completed: April 20, 2004, 03:04:35  
Job time : 66 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 20, 2004, 03:00:59 ; Search time 333 Seconds  
(without alignments)

8116.057 Million cell updates/sec

Title: US-10-079-754A-4

Perfect score: 604  
Sequence: 1 gaagatttcagttcttata.....tatcaagcataaaaaaaaaa 604

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 2890132 seqs, 2237290429 residues

Total number of hits satisfying chosen parameters: 5780264

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

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- 19: /cgn2\_6/ptodata1/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	448.2	74.2	585	14	US-10-079-754A-2
4	433.4	70.1	525	14	US-10-079-754A-6
5	238.4	39.5	267	14	US-10-079-754A-15
6	238.4	39.5	267	14	US-10-079-623-200
7	115	19.0	869	14	US-10-079-754A-3
8	87	14.4	96	14	US-10-079-754A-5
9	70.4	11.7	438	10	US-09-992-600A-5
10	70.4	11.7	438	10	US-09-924-340-5
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12	70.4	11.7	438	10	US-09-999-570-5
13	70.4	11.7	438	15	US-10-000-489-5
14	70.4	11.7	438	15	US-10-000-986-5

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Sequence 236, App  
Sequence 4552, Ap  
Sequence 10853, A  
Sequence 2214, Ap  
Sequence 95, Appl  
Sequence 107, App

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US-10-312-841-1  
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US-10-172-086-19  
US-10-311-455-739  
US-10-240-453-236  
US-09-814-353-10853  
US-10-311-455-2214  
US-10-239-676-95  
US-10-240-453-107

ALIGNMENTS

RESULT 1

US-10-079-754A-4  
Sequence 4, Application US/10079754A  
Publication No. US20020164625A1  
GENERAL INFORMATION:  
APPLICANT: Grigor, Murray R.  
APPLICANT: Molenaar, Adrian J.  
APPLICANT: Davis, Stephen R.  
TITLE OF INVENTION: Compositions Isolated from Bovine Mammary Gland and Methods for Their Use  
FILE REFERENCE: 11000.1068  
CURRENT APPLICATION NUMBER: US/10/079.754A  
CURRENT FILING DATE: 2002-02-19  
PRIOR APPLICATION NUMBER: US 09/699,146  
PRIOR FILING DATE: 2000-10-27  
PRIOR APPLICATION NUMBER: US 60,162,701  
PRIOR FILING DATE: 1999-10-29  
PRIOR APPLICATION NUMBER: US 09/644,190  
PRIOR FILING DATE: 2000-08-22  
PRIOR APPLICATION NUMBER: US 60,150,330  
PRIOR FILING DATE: 1999-08-23  
NUMBER OF SEQ ID NOS: 15  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 4  
LENGTH: 604  
TYPE: DNA  
ORGANISM: Bovine  
US-10-079-754A-4

Query Match 100.0%; Score 604; DB 14; Length 604;

Best Local Similarity 100.0%; Pred. No. 5.3e-128; Mismatches 0; Indels 0; Gaps 0;

Matches 604; Conservative 0;

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1 GAAGTATTTTCAGTTCTTATAAGATCTCATACTGATGTGTAATACAAAACAAATGAA 60

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61	GGATTTC	CAAGGTATTTAAAC	CAGCAGTTTTCT	AGCAAGAA	CATCTC	CTGAAGCAT	CAG	120
121	AATTTCA	TCTTTTCATGACT	GCAGCTCCACCA	AAATGAAGATCTTTAT	CTTTGTC	TCTTCATT	180	
121	AATTTCA	TCTTTTCATGACT	GCAGCTCCACCA	AAATGAAGATCTTTAT	CTTTGTC	TCTTCATT	180	
181	ATGGCTC	TCTCATCTAGCC	ATGATTAGAGCTGATTCAT	CTGAAGAGAAA	CGTCA	CAGAAA	240	
181	ATGGCTC	TCTCATCTAGCC	ATGATTAGAGCTGATTCAT	CTGAAGAGAAA	CGTCA	CAGAAA	240	
241	CGGAAAA	AACATCATAGAG	ATATTTTCA	CAATACAGCGCATATCA	ACGATATCC	ACTA	300	
241	CGGAAAA	AACATCATAGAG	ATATTTTCA	CAATACAGCGCATATCA	ACGATATCC	ACTA	300	
301	AATTTAT	CTCTCGCGTATCC	ATTTTCTTTAA	AATGCTGCTTAGTA	AACTTACAGGACATGAT	360		
301	AATTTAT	CTCTCGCGTATCC	ATTTTCTTTAA	AATGCTGCTTAGTA	AACTTACAGGACATGAT	360		
361	AGAGAGAT	TTTTTCA	CAATGAATTTTTC	TCTACTCTTTCTGTTG	TGTGTA	AAACCATCTTTCA	420	
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421	AATGAAT	AAAAACA	AAAGAAAAA	AAATCAAGT	TAGTTCACACA	CAATCTTGAATC	480	
481	AAATATCA	ATATTTTAAAA	ACATPAATGATGATGCTCTG	GAAC	TAATGTAATGTTGTTCTAC	540		
481	AAATATCA	ATATTTTAAAA	ACATPAATGATGATGCTCTG	GAAC	TAATGTAATGTTGTTCTAC	540		
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601	AAAA	604						

RESULT 2  
US-10-079-754A-1  
; Sequence 1, Application US/10079754A  
; Publication No. US20020164625A1  
; GENERAL INFORMATION:  
; APPLICANT: Glenn, Matthew  
; APPLICANT: Grigor, Murray R.  
; APPLICANT: Molenaar, Adrian J.  
; APPLICANT: Davis, Stephen R.  
; TITLE OF INVENTION: Compositions Isolated from Bovine  
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use  
; FILE REFERENCE: 11000.1068  
; CURRENT APPLICATION NUMBER: US/10/079,754A  
; CURRENT FILING DATE: 2002-02-19  
; PRIOR APPLICATION NUMBER: US 09/699,146  
; PRIOR FILING DATE: 2000-10-27  
; PRIOR APPLICATION NUMBER: US 60,162,701  
; PRIOR FILING DATE: 1999-10-29  
; PRIOR APPLICATION NUMBER: US 09/644,190  
; PRIOR FILING DATE: 2000-08-22  
; PRIOR APPLICATION NUMBER: US 60,150,330  
; PRIOR FILING DATE: 1999-08-23  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: Fast-Seq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 505  
; TYPE: DNA  
; ORGANISM: Bovine  
US-10-079-754A-1

Query Match 77.1%; Score 465.4; DB 14; Length 505;

Qy	198	CATGATTAGAGCTGATTCATCTGGAAGAGAAACGTCACAGGAAACGGAAAAAACAATCATGAT	257
Db	193	CATGATTAGAGCTGATTCATCTGGAAGAGAAACGTCACAGGAAACGGAAAAAACAATCATGAT	252
Qy	258	AGGATATTTTCAACAAATACCGCCATATCAACGATATCCACTAAATTTATCCTCCTCGGTA	317
Db	253	AGGATATTTTCAACAAATACCGCCATATCAACGATATCCACTAAATTTATCCTCCTCGGTA	312
Qy	318	TCCATTTTCCCTTAAATGCTGTAGTAACACAGGACATGATTAGAGAGATTTTTTCACAA	377
Db	313	TCCATTTTCCCTTAAATGCTGTAGTAACACAGGACATGATTAGAGAGATTTTTTCACAA	372
Qy	378	TGATTTTTTCCTACTCTTTCTGTGTGTGTAAGAAACGATCTTCAATGATATAAACAAAGA	437
Db	373	TGATTTTTTCCTACTCTTTCTGTGTGTGTAAGAAACGATCTTCAATGATATAAACAAAGA	432
Qy	438	AAAAAAAATCAGTCAAGTAGTTGACACACACATCTTGGATCAAAATCAATATTTTAA	497
Db	433	AAAAAAAATCAGTCAAGTAGTTGACACACACATCTTGGATCAAAATCAATATTTTAA	492
Qy	498	AAACATAATATGATAGTCTCTGAACTATGTAATTTGGTTTCTACTTTCTTTCTCTGTCAC	557
Db	493	AAACATAATATGATAGTCTCTGAACTATGTAATTTGGTTTCTACTTTCTTTCTCTGTCAC	552
Qy	558	TTACCATGATCGTTTAATTAATTTGATCTATCAA	590
Db	553	TTACCATGATCGTTTAATTAATTTGATCTATCAA	585

RESULT 4  
US-10-079-754A-6  
; Sequence 6, Application US/10079754A  
; Publication NO. US20020164625A1  
; GENERAL INFORMATION:  
; APPLICANT: Glenn, Matthew  
; APPLICANT: Grigor, Murray R.  
; APPLICANT: Molenaar, Adrian J.  
; APPLICANT: Davis, Stephen R.  
; TITLE OF INVENTION: Compositions Isolated from Bovine  
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use

Query Match	70.1%;	Score 423.4;	DB 14;	Length 525;
Best Local Similarity	93.4%;	Pred. No. 8.8e-87;		
Matches 466;	Conservative 0;	Mismatches 1;	Indels 32;	Gaps 1
Qy	138	CTGGACTCCACCAATATGAGATCTTTATCTTTGTCTTTCATTATGCTCTCATCTCAGC	197	
Db	27	CAGGACTCCACCAAAATGAGATCTTTATCTTTGTCTTTCATTATGCTCTCATCTCAGC	86	
Qy	198	CATGATTAGAGCTGATTTCATCTGAGAGAAACGGTCAGAGAAACGGAAAAACATCAT--	255	
Db	87	CATGATTAGAGCTGATTTCATCTGAGAGAAACGGTCAGAGAAACGGAAAAACATCATGT	146	
Qy	256	-----AGAGGATATTTTCAACAATACCAGCCATAT	285	

147	Db	TGATAGGTCTCCAGAAATCTTTACTAATACAAGAGATATTTTCAACAATACCAGGCATAT	206
286	Qy	CAACGATATCCACTAAATATTCTCCCTGCGTATCCATTTCTTAAATGCTGCTTAGTAA	345
207	Db	CAACGATATCCACTAAATATTCTCCCTGCGTATCCATTTCTTAAATGCTGCTTAGTAA	266
346	Qy	CTACAGAGACATGATTAGAGAGATTTTTACAAATGATTTTTCTACTCTTTCTGTTGTGTT	405
267	Db	CTACAGGCATGATTAGAGATTTTTACAAATGATTTTTCTACTCTTTCTGTTGTGTT	326
406	Qy	GAAAAACAATCTTTCAAATGAAATAAAACAAAGAAAAAAAATCAGTCAAGTAGTTGCAACAA	465
327	Db	GAAAAACCATCTTTCAAATGAAATAAAACAAAGAAAAAAAATCAGTCAAGTAGTTGCAACAA	386
466	Qy	CACATATCTTGGAAATCAAAATATCAATATTTTAAAAACATAAATGATAGTCTCTGAACTAT	525
387	Db	CACATATCTTGGAAATCAAAATATCAATATTTTAAAAACATAAATGATAGTCTCTGAACTAT	446
526	Qy	GTAATGGTTTCTACTTCTTTCTCTGTCACCTTACCAGTCGTTTAATAAATGATCT	585
447	Db	GTAATGGTTTCTACTTCTTTCTCTGTCACCTTACCAGTCGTTTAATAAATGATCT	506
586	Qy	ATCAAGCATAAAAAATAA 604	
507	Db	ATCAAGCATAAAAAATAA 525	

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RESULT 5
US-10-079-754A-15
; Sequence 15, Application US/10079754A
; Publication NO. US2002016425A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Grigor, Murray R.
; APPLICANT: Molenaar, Adrian J.
; APPLICANT: Davis, Stephen R.
; TITLE OF INVENTION: Compositions Isolated from Bovine
; TITLE OF INVENTION: Mammary Gland and Methods for Their Use

```

	Query Match	39.5%	Score 238.4	DB 14	Length 267
	Best Local Similarity	99.6%	Pred. 0.11e-44		
	Matches 239	Conservative	0	Mismatches 1	Indels 0
				Gaps	0
QY	138	CTGACCTCCACCAATATGAAGATCTTTATCTTTGTCTTTCATTATGGCTCTCATCCCTAGC	197		
DB	28	CAGGACTCCACCAATATGAAGATCTTTATCTTTGTCTTTCATTATGGCTCTCATCCCTAGC	87		
QY	198	CATGATTAGAGCTGCAATTCATCTGAAGAGAGAAACGTCACAGGAAACGGAAAAAACAATCATAG	257		
DB	88	CATGATTAGAGCTGATTCATCTGAAGAGAGAAACGTCACAGGAAACGGAAAAAACAATCATAG	147		
QY	258	AGGATATTTTCAACAATACCGACCATATCAACGATATCCACTAAATATCTCTCTGGCGTA	317		
DB	148	AGGATATTTTCAACAATACCGACCATATCAACGATATCCACTAAATATCTCTCTGGCGTA	207		

QY 318 TCCATTTCCCTTAAATGCTGCTTGTAGTAACCTACAGGACATGATTAGAGAGATTTTTCACAA 377  
DB 208 TCCATTTCCCTTAAATGCTGCTTGTAGTAACCTACAGGACATGATTAGAGAGATTTTTCACAA 267

## RESULT 6

US-10-079-623-200  
; Sequence 200, Application US/10079623  
; Publication NO. US20020169302A1  
; GENERAL INFORMATION:  
; APPLICANT: Havukkala, Ilkka J.  
; APPLICANT: Glenn, Matthew  
; APPLICANT: Grigor, Murray R.  
; APPLICANT: Molenaar, Adrian J.  
; TITLE OF INVENTION: Compositions isolated from bovine  
; FILE REFERENCE: 11000.1044C3  
; CURRENT APPLICATION NUMBER: US/10/079,623  
; CURRENT FILING DATE: 2002-02-19  
; NUMBER OF SEQ ID NOS: 370  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 200  
; LENGTH: 267  
; TYPE: DNA  
; ORGANISM: Bovine  
US-10-079-623-200

Query Match 39.5%; Score 238.4; DB 14; Length 267;  
Best Local Similarity 99.6%; Pred. No. 1.1e-44;  
Matches 239; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 138 CTGAGCTCCACCAATATGAAGATCTTTATCTTTGTCTTATTATGCTCTCATCTCTAGC 197  
DB 28 CAGGACTCCACCAATATGAAGATCTTTATCTTTGTCTTATTATGCTCTCATCTCTAGC 87  
QY 198 CATGATTAGAGCTGATTCATCTGAGAGAAACGTCACAGGAAACGGAAAAACATCATAG 257  
DB 88 CATGATTAGAGCTGATTCATCTGAGAGAAACGTCACAGGAAACGGAAAAACATCATAG 147  
QY 258 AGGATATTTTCAACAATACAGGACATATCAACGATATCCACTAAATATCTCTCTCGTA 317  
DB 148 AGGATATTTTCAACAATACAGGACATATCAACGATATCCACTAAATATCTCTCTCGTA 207  
QY 318 TCCATTTCCCTTAAATGCTGCTTGTAGTAACCTACAGGACATGATTAGAGAGATTTTTCACAA 377  
DB 208 TCCATTTCCCTTAAATGCTGCTTGTAGTAACCTACAGGACATGATTAGAGAGATTTTTCACAA 267

## RESULT 7

US-10-079-754A-3  
; Sequence 3, Application US/10079754A  
; Publication NO. US20020164625A1  
; GENERAL INFORMATION:  
; APPLICANT: Glenn, Matthew  
; APPLICANT: Grigor, Murray R.  
; APPLICANT: Molenaar, Adrian J.  
; APPLICANT: Davis, Stephen R.  
; TITLE OF INVENTION: Compositions Isolated from Bovine  
; FILE REFERENCE: 11000.1068  
; CURRENT APPLICATION NUMBER: US/10/079,754A  
; CURRENT FILING DATE: 2002-02-19  
; PRIOR APPLICATION NUMBER: US 09/699,146  
; PRIOR FILING DATE: 2000-10-27  
; PRIOR APPLICATION NUMBER: US 60,162,701  
; PRIOR FILING DATE: 1999-10-29  
; PRIOR APPLICATION NUMBER: US 09/644,190  
; PRIOR FILING DATE: 2000-08-22  
; PRIOR APPLICATION NUMBER: US 60,150,330  
; PRIOR FILING DATE: 1999-08-23  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 3  
; LENGTH: 869  
; TYPE: DNA  
; ORGANISM: Bovine  
US-10-079-754A-3

Query Match 19.0%; Score 115; DB 14; Length 869;  
Best Local Similarity 92.4%; Pred. No. 3.1e-16;  
Matches 121; Conservative 0; Mismatches 10; Indels 0; Gaps 0;  
QY 138 CTGAGCTCCACCAATATGAAGATCTTTATCTTTGTCTTATTATGCTCTCATCTCTAGC 197  
DB 58 CAGGACTCCACCAATATGAAGATCTTTATCTTTGTCTTATTATGCTCTCATCTCTAGC 115  
QY 198 CATGATTAGAGCTGATTCATCTGAGAGAAACGTCACAGGAAACGGAAAAACATCATAG 257  
DB 116 CATGATTAGAGCTGATTCATCTGAGAGAAACGTCACAGGAAACGGAAAAACATCATGT 175  
QY 258 AGGATATTTTTC 268  
DB 176 ATGATTCTCTC 186

## RESULT 8

US-10-079-754A-5  
; Sequence 5, Application US/10079754A  
; Publication NO. US20020164625A1  
; GENERAL INFORMATION:  
; APPLICANT: Glenn, Matthew  
; APPLICANT: Grigor, Murray R.  
; APPLICANT: Molenaar, Adrian J.  
; APPLICANT: Davis, Stephen R.  
; TITLE OF INVENTION: Compositions Isolated from Bovine  
; FILE REFERENCE: 11000.1068  
; CURRENT APPLICATION NUMBER: US/10/079,754A  
; CURRENT FILING DATE: 2002-02-19  
; PRIOR APPLICATION NUMBER: US 09/699,146  
; PRIOR FILING DATE: 2000-10-27  
; PRIOR APPLICATION NUMBER: US 60,162,701  
; PRIOR FILING DATE: 1999-10-29  
; PRIOR APPLICATION NUMBER: US 09/644,190  
; PRIOR FILING DATE: 2000-08-22  
; PRIOR APPLICATION NUMBER: US 60,150,330  
; PRIOR FILING DATE: 1999-08-23  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5  
; LENGTH: 96  
; TYPE: DNA  
; ORGANISM: Bovine  
US-10-079-754A-5

Query Match 14.4%; Score 87; DB 14; Length 96;  
Best Local Similarity 94.7%; Pred. No. 2.6e-10;  
Matches 90; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
QY 265 TTTCACCAATACAGGACATATCAACGATATCCACTAAATATCTCTCTCGTATCCATTT 324  
DB 1 TTTCACCAATACAGGACATATCAACGATATCCACTAAATATCTCTCTCGTATCCATTA 60  
QY 325 CTTTAAATGCTGCTTAGTAACCTACAGGACATGAT 359  
DB 61 TCTTAAATGCTGCTTAGCAACTACAGGACATGAT 95

## RESULT 9

US-09-992-600A-5  
; Sequence 5, Application US/09992600A  
; Publication NO. US20030027161A1  
; GENERAL INFORMATION:  
; APPLICANT: Benjanin, Stephane  
; APPLICANT: Tanaka, Hiroaki

;; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF

;; FILE REFERENCE: 91.US4.DIV

;; CURRENT APPLICATION NUMBER: US/09/992,600A

;; CURRENT FILING DATE: 2001-11-13

;; PRIOR APPLICATION NUMBER: US 09/924,340

;; PRIOR FILING DATE: 2001-08-06

;; PRIOR APPLICATION NUMBER: PCT/IB01/01715

;; PRIOR FILING DATE: 2001-08-06

;; PRIOR APPLICATION NUMBER: US 60/305,456

;; PRIOR FILING DATE: 2001-07-13

;; PRIOR APPLICATION NUMBER: US 60/302,277

;; PRIOR FILING DATE: 2001-06-29

;; PRIOR APPLICATION NUMBER: US 60/298,698

;; PRIOR FILING DATE: 2001-06-15

;; PRIOR APPLICATION NUMBER: US 60/293,574

;; PRIOR FILING DATE: 2001-05-25

;; NUMBER OF SEQ ID NOS: 114

;; SOFTWARE: Jpatent

;; SEQ ID NO 5

;; LENGTH: 438

;; TYPE: DNA

;; ORGANISM: Homo sapiens

;; FEATURE:

;; NAME/KEY: 5'UTR

;; LOCATION: 1..83

;; FEATURE:

;; NAME/KEY: CDS

;; LOCATION: 84..317

;; FEATURE:

;; NAME/KEY: 3'UTR

;; LOCATION: 318..438

;; FEATURE:

;; NAME/KEY: polyA signal

;; LOCATION: 397..402

;; FEATURE:

;; NAME/KEY: polyA site

;; LOCATION: 423..438

;; US-09-992-600A-5

Query Match

11.7%; Score 70.4; DB 10; Length 438;

Best Local Similarity 69.9%; Pred. No. 3.4e-06;

Matches 95; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

QY 120 GAATTCATCTTCATGACTGACTCCACCAATATGAAGATCTTATCTTGTCTTCAT 179

DB 50 GACTCTCTCTTGGATTAAGAGGACTCAGCCAACTATGAAGTTTGTCTTGTCTTAGT 109

QY 180 TATGGCTCTCATCTAGCCATGATTAGAGCTGATTCATCTGAAGAGAAACGTACAGGAA 239

DB 110 CTGGCTCTCATGATTTCCATGATTAGCGCTGATTCACATGAAGAGACATCATGGGTA 169

QY 240 ACGGAAAAACATCAT 255

DB 170 TAGAAGAAAAATTCAT 185

RESULT 10

US-09-924-340-5

;; Sequence 5, Application US/09924340

;; Publication No. US20030027248A1

;; GENERAL INFORMATION:

;; APPLICANT: Benjamin, Stephane

;; APPLICANT: Tanaka, Hiroaki

;; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF

;; FILE REFERENCE: 91.US2.REG

;; CURRENT APPLICATION NUMBER: US/09/924,340

;; CURRENT FILING DATE: 2001-08-06

;; PRIOR APPLICATION NUMBER: US 60/305,456

;; PRIOR FILING DATE: 2001-07-13

;; PRIOR APPLICATION NUMBER: US 60/302,277

;; PRIOR FILING DATE: 2001-06-29

;; PRIOR APPLICATION NUMBER: US 60/298,698

;; PRIOR FILING DATE: 2001-06-15

;; PRIOR APPLICATION NUMBER: US 60/293,574

;; PRIOR FILING DATE: 2001-05-25

;; NUMBER OF SEQ ID NOS: 112

;; SOFTWARE: Jpatent

;; SEQ ID NO 5

;; LENGTH: 438

;; TYPE: DNA

;; ORGANISM: Homo sapiens

;; FEATURE:

;; NAME/KEY: 5'UTR

;; LOCATION: 1..83

;; NAME/KEY: CDS

;; LOCATION: 84..317

;; NAME/KEY: 3'UTR

;; LOCATION: 318..438

;; NAME/KEY: polyA signal

;; LOCATION: 397..402

;; NAME/KEY: polyA site

;; LOCATION: 423..438

;; US-09-924-340-5

Query Match

11.7%; Score 70.4; DB 10; Length 438;

Best Local Similarity 69.9%; Pred. No. 3.4e-06;

Matches 95; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

QY 120 GAATTCATCTTCATGACTGACTCCACCAATATGAAGATCTTATCTTGTCTTCAT 179

DB 50 GACTCTCTCTTGGATTAAGAGGACTCAGCCAACTATGAAGTTTGTCTTGTCTTAGT 109

QY 180 TATGGCTCTCATCTAGCCATGATTAGAGCTGATTCATCTGAAGAGAAACGTACAGGAA 239

DB 110 CTGGCTCTCATGATTTCCATGATTAGCGCTGATTCACATGAAGAGACATCATGGGTA 169

QY 240 ACGGAAAAACATCAT 255

DB 170 TAGAAGAAAAATTCAT 185

RESULT 11

US-09-992-095B-5

;; Sequence 5, Application US/0992095B

;; Publication No. US20030157485A1

;; GENERAL INFORMATION:

;; APPLICANT: Benjamin, Stephane

;; APPLICANT: Tanaka, Hiroaki

;; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF

;; FILE REFERENCE: 91.US5.DIV

;; CURRENT APPLICATION NUMBER: US/09/992,095B

;; CURRENT FILING DATE: 2003-02-20

;; PRIOR APPLICATION NUMBER: US 09/924,340

;; PRIOR FILING DATE: 2001-08-06

;; PRIOR APPLICATION NUMBER: PCT/IB01/01715

;; PRIOR FILING DATE: 2001-08-06

;; PRIOR APPLICATION NUMBER: US 60/305,456

;; PRIOR FILING DATE: 2001-07-13

;; PRIOR APPLICATION NUMBER: US 60/302,277

;; PRIOR FILING DATE: 2001-06-29

;; PRIOR APPLICATION NUMBER: US 60/298,698

;; PRIOR FILING DATE: 2001-06-15

;; PRIOR APPLICATION NUMBER: US 60/293,574

;; PRIOR FILING DATE: 2001-05-25

;; NUMBER OF SEQ ID NOS: 112

;; SOFTWARE: Jpatent

;; SEQ ID NO 5

;; LENGTH: 438

;; TYPE: DNA

;; ORGANISM: Homo sapiens

;; FEATURE:

;; NAME/KEY: 5'UTR

;; LOCATION: 1..83

;; FEATURE:

;; NAME/KEY: CDS

;; LOCATION: 84..317

```
/ FEATURE:
/ NAME/KEY: 3'UTR
/ LOCATION: 318..438
/ FEATURE:
/ NAME/KEY: polyA_signal
/ LOCATION: 397..402
/ FEATURE:
/ NAME/KEY: polyA_site
/ LOCATION: 423..438
US-09-992-095B-5

Query Match      11.7%; Score 70.4; DB 10; Length 438;
Best Local Similarity 69.9%; Pred. No. 3.4e-06;
Matches 95; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

QY 120 GAATTTTCATCTTTCATGACGTGGACTCCACCAATATGAAGATCTTTATCTTTGCTTTTCAT 179
Db 50 GACTCTCTCTTGTAGTAAAGGACTCAGCCAACTATGAAGTTTTTGTCTTTGCTTTAGT 109

QY 180 TATGGCTCTCATCTAGCCATGATTAGAGCTGATTCATCTGAGAGAAAACGTCACAGGAA 239
Db 110 CTGGCTCTCATGATTTCCATGATTAGCGCTGATTCACATGAAAAGAGACATCATGGGTA 169

QY 240 ACGGAAAAAACATCAT 255
Db 170 TAGAAGAAAATTCAT 185

RESULT 12
US-09-999-570-5
; Sequence 5, Application US/09999570
; Publication No. US20030170628A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: G-091US08DIV
; CURRENT APPLICATION NUMBER: US/09/999,570
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 5
; LENGTH: 438
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: 1..83
; NAME/KEY: CDS
; LOCATION: 84..317
; NAME/KEY: 3'UTR
; LOCATION: 318..438
; NAME/KEY: polyA_signal
; LOCATION: 397..402
; NAME/KEY: polyA_site
; LOCATION: 423..438
US-09-999-570-5

Query Match      11.7%; Score 70.4; DB 15; Length 438;
Best Local Similarity 69.9%; Pred. No. 3.4e-06;
Matches 95; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

QY 120 GAATTTTCATCTTTCATGACGTGGACTCCACCAATATGAAGATCTTTATCTTTGCTTTTCAT 179
Db 50 GACTCTCTCTTGTAGTAAAGGACTCAGCCAACTATGAAGTTTTTGTCTTTGCTTTAGT 109

QY 180 TATGGCTCTCATCTAGCCATGATTAGAGCTGATTCATCTGAGAGAAAACGTCACAGGAA 239
Db 110 CTGGCTCTCATGATTTCCATGATTAGCGCTGATTCACATGAAAAGAGACATCATGGGTA 169

QY 240 ACGGAAAAAACATCAT 255
Db 170 TAGAAGAAAATTCAT 185

RESULT 13
US-10-000-489-5
; Sequence 5, Application US/10000489
; Publication No. US20030092011A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91.US6.DIV
; CURRENT APPLICATION NUMBER: US/10/000,489
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 5
; LENGTH: 438
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: 1..83
; NAME/KEY: CDS
; LOCATION: 84..317
; NAME/KEY: 3'UTR
; LOCATION: 318..438
; NAME/KEY: polyA_signal
; LOCATION: 397..402
; NAME/KEY: polyA_site
; LOCATION: 423..438
US-10-000-489-5

Query Match      11.7%; Score 70.4; DB 15; Length 438;
Best Local Similarity 69.9%; Pred. No. 3.4e-06;
Matches 95; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

QY 120 GAATTTTCATCTTTCATGACGTGGACTCCACCAATATGAAGATCTTTATCTTTGCTTTTCAT 179
Db 50 GACTCTCTCTTGTAGTAAAGGACTCAGCCAACTATGAAGTTTTTGTCTTTGCTTTAGT 109

QY 180 TATGGCTCTCATCTAGCCATGATTAGAGCTGATTCATCTGAGAGAAAACGTCACAGGAA 239
Db 110 CTGGCTCTCATGATTTCCATGATTAGCGCTGATTCACATGAAAAGAGACATCATGGGTA 169

QY 240 ACGGAAAAAACATCAT 255
Db 170 TAGAAGAAAATTCAT 185
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Db 170 TAGAAGAAAAATTCAT 185

## RESULT 14

US-10-000-986-5  
; Sequence 5, Application US/10000986  
; Publication No. US2003096247A1  
; GENERAL INFORMATION:  
; APPLICANT: Benjanin, Stephanie  
; APPLICANT: Tanaka, Hiroaki  
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF  
; FILE REFERENCE: 91. US9. DIV  
; CURRENT APPLICATION NUMBER: US/10/000,986  
; CURRENT FILING DATE: 2001-11-14  
; PRIOR APPLICATION NUMBER: US 09/924,340  
; PRIOR FILING DATE: 2001-08-06  
; PRIOR APPLICATION NUMBER: PCT/IB01/01715  
; PRIOR FILING DATE: 2001-08-06  
; PRIOR APPLICATION NUMBER: US 60/305,456  
; PRIOR FILING DATE: 2001-07-13  
; PRIOR APPLICATION NUMBER: US 60/302,277  
; PRIOR FILING DATE: 2001-06-29  
; PRIOR APPLICATION NUMBER: US 60/298,698  
; PRIOR FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: US 60/293,574  
; PRIOR FILING DATE: 2001-05-25  
; NUMBER OF SEQ ID NOS: 112  
; SOFTWARE: Jpatent  
; SEQ ID NO 5  
; LENGTH: 438  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURES:  
; NAME/KEY: 5'UTR  
; LOCATION: 1..83  
; NAME/KEY: CDS  
; LOCATION: 84..317  
; NAME/KEY: 3'UTR  
; LOCATION: 318..438  
; NAME/KEY: polyA signal  
; LOCATION: 397..402  
; NAME/KEY: polyA site  
; LOCATION: 423..438  
US-10-000-986-5

Query Match	11.7%	Score 70.4;	DB 15;	Length 438;
Best Local Similarity	69.9%	Pred. No. 3.4e-06;		
Matches	95;	Conservative 0;	Mismatches 41;	Indels 0; Gaps 0;

  

Qy	120	GAATTTTCATCTTTCATGCTGGACTCCACCAAATATGAAGACTTTATCTTTGTCTTTCAT	179
Db	50	GACTCTCCTCTGTGATTAAGAGACTCGCCAACTATGAAGTTTTTTGTCTTTGTCTTTCAT	109
Qy	180	TATGGCTCTCATCTTAGCGCATGATTAGAGCTGATTTTCATCTGAAGAGAAACGTCACAGAA	239
Db	110	CTTGGCTCTCATGATTTCCATGANTAGCGTGATTCACATGAAGAGACATCTGGGTA	169
Qy	240	ACGGAAAAAACATCAT	255
Db	170	TAGAAGAAAAATTCAT	185

Search completed: April 20, 2004, 04:32:30  
Job time : 366 secs

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, CURRENT FILING DATE: 2002-10-15
, PRIOR APPLICATION NUMBER: US 09/924,340
, PRIOR FILING DATE: 2001-08-06
, PRIOR APPLICATION NUMBER: US 60/305,456
, PRIOR FILING DATE: 2001-07-13
, PRIOR APPLICATION NUMBER: US 60/302,277
, PRIOR FILING DATE: 2001-06-29
, PRIOR APPLICATION NUMBER: US 60/298,698
, PRIOR FILING DATE: 2001-06-15
, PRIOR APPLICATION NUMBER: US 60/293,574
, PRIOR FILING DATE: 2001-05-25
, NUMBER OF SEQ ID NOS: 112
, SOFTWARE: JPatent
, SEQ ID NO 5
, LENGTH: 438
, TYPE: DNA
, ORGANISM: Homo sapiens
, FEATURE:
, NAME/KEY: 5'UTR
, LOCATION: 1..83
, FEATURE:
, NAME/KEY: CDS
, LOCATION: 84..317
, FEATURE:
, NAME/KEY: 3'UTR
, LOCATION: 318..438
, FEATURE:
, NAME/KEY: polyA.signal
, LOCATION: 397..402
, FEATURE:
, NAME/KEY: polyA.site
, LOCATION: 423..438
, NAME/KEY: polyA.site
US-10-154-678-5
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	Query Match	11.7%	Score 70.4	DB 15	Length 438
	Best Local Similarity	69.9%	Pred. No. 3.4e-06		
	Matches	95	Conservative	0	Mismatches 41; Indels 0; Gaps 0;
Qy	120	GAATTTTCATCTTTCATGACCTGGACTCCACCAATATGAAGATCTTTATCTTTGTCTTCAT	179		
Db	50	GATCTCTCTCTTGGATAAAGGACTCAGCAACTATGAAGTTTTTTTGTCTTTGCTTTAGT	109		
Qy	180	TATGGGTCTTCATCCTAGCCATGATTAGAGCTGATTTCATCTGAAGAGAAAGCTCACAGGAA	239		
Db	110	CTTGGCTCTCATGATTTCCATGATTAGCGCTGATTCACATGAAGAGACATCATGGGTA	169		
Qy	240	ACGGAAAAACATCAT	255		
Db	170	TAGAAGAAAAATTCAT	185		

RESULT 15  
US-10-154-678-5  
; Sequence 5, Application US/10154678  
; Publication No. US20030162186A1  
; GENERAL INFORMATION:  
; APPLICANT: Benjamin, Stephane  
; APPLICANT: Tanaka, Hiroaki  
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF  
; FILE REFERENCE: 182.US1.REG  
; CURRENT APPLICATION NUMBER: US/10/154,678